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ABSTRACT

The marketing of sorghum in the U.S. involves complex interregional grain movements. Moving the crop from its highly concentrated production region to points where it is used or exported requires a large transportation capacity. To provide a basis for policy and investment decisions, detailed information on sorghum movements during 1977 was collected from 3,500 grain merchandising, processing, and exporting firms in 41 states. Survey data on receipts and shipments for each state or substate area were expanded to represent total volumes for those areas and were verified by comparison with information from secondary sources. The data, which represent the most comprehensive and accurate information available on sorghum movements, are presented and summarized in this bulletin.

Keywords: Grain flows, grain shipping, grain transportation, interregional analysis, sorghum, sorghum marketing.

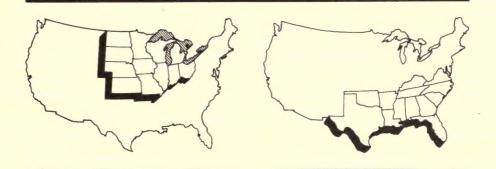
Sorghum Movements in the United States Interregional Flow Patterns and Transportation Requirements in 1977

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Preface

The research reported in this bulletin is the first effort ever made to survey grain shippers and receivers nationwide; it is the most comprehensive study of grain movements ever conducted. Members of the technical committees, including representatives of Agricultural Experiment Stations in 25 states, assisted in conducting an industry survey to collect flow data for wheat, corn, soybeans, sorghum, oats, barley, and rye. In addition, surveys were conducted in 16 other states through contracts with 15 universities located in those states. The industry surveys were coordinated by Lowell D. Hill, Department of Agricultural Economics, University of Illinois at Urbana-Champaign. The data were tabulated and summarized under the supervision of Mack N. Leath, Economics and Statistics Service, U.S. Department of Agriculture. The success of this research project is due to the cooperation of thousands of grain marketing firms and the efforts of researchers in the many participating states.

The research was funded in part through contract DACW 72-78-C-0005 with the Institute of Water Resources, U.S. Army Corps of Engineers. Supplemental support was provided by the Federal Railroad Administration of the U.S. Department of Transportation, the Maritime Administration of the U.S. Department of Commerce, and the St. Lawrence Seaway Development Corporation. Administration of grant funds was coordinated by Lowell D. Hill, University of Illinois at Urbana-Champaign.

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Sorghum Movements in the United States

Interregional Flow Patterns and Transportation Requirements in 1977

INTRODUCTION

Information about the origin and destination of grain produced in the United States and about the modes of transportation used to convey it is important for many policy and investment decisions. Although data on the quantities of grains shipped abroad from each port are available and statistics on the amount of grain shipped on the inland waterways are published annually, little information is available that can be used to match origins with destinations and to identify the mode of transportation used.

Through personal interviews with over 3,500 grain merchandisers, processors, and exporters throughout the United States, data on origins, destinations, and transport modes have now been assembled for corn, wheat, soybeans, sorghum, oats, barley, and rye. This publication summarizes the data for sorghum. Other publications in this series provide similar information for the other grains.

Sorghum is the second most important feed grain produced in the United States. Annual production has gen-

erally exceeded 700 million bushels in recent years (Table 1). During the 1970s the amount of sorghum used for human consumption declined from 3 million bushels to 1 million bushels, and the quantity used in alcoholic beverage production averaged about three million bushels annually. The amount used for seed is almost totally a function of the acreage planted; it has accounted for about 2 million bushels annually. The major domestic use of sorghum is for livestock feed. The usage for feed varies greatly from year to year in response to changes in the relative price and supply of sorghum as compared to other feed grains. The annual usage for feed generally exceeded 500 million bushels during the 1970s. The most dramatic growth in the demand for sorghum has been in the export markets. Export shipments of sorghum increased from 123 million bushels in 1971-72 to an estimated 350 million bushels in 1979-80

Sorghum requires a large volume of transportation because it is grown in a highly concentrated production area and because the very large export demand is focused on only a few ports on the Gulf of Mexico. The production of sorghum is concentrated in the Southern

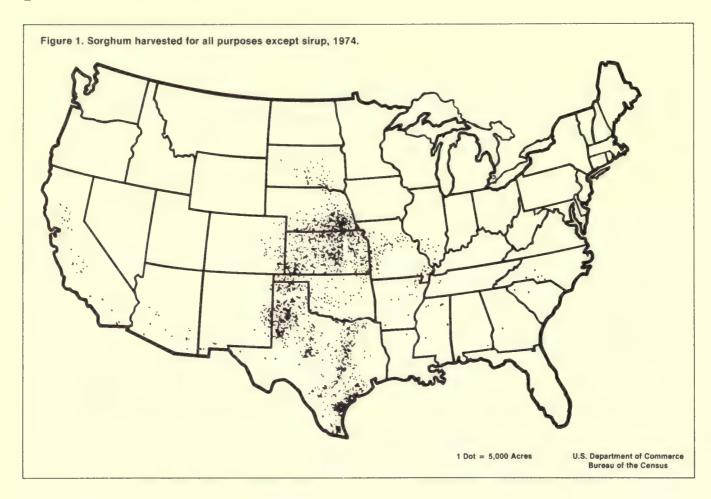
Table 1. Sorghum Supply and Distribution in the United States for Marketing Years from 1970-71 to 1979-80

		Supply	·			Disappea	arance		
Marketing year ^a	Begin- ning stocks	Produc- tion	Total	Food	Alc. bever- ages	Seed	Feed and re- sidual	Exports	Total
				mill	ions of bus	hels			
1970-71	244	683	927	3	4	3	683	144	837
1971-72	90	868	958	2	5	2	685	123	816
1972-73	142	801	943	2	2	2	652	212	870
1973-74	73	923	996	2	3	2	694	234	935
1974-75	61	623	684	1	3	2	431	212	649
1975-76	35	753	788	1	3	2	502	229	737
1976-77	51	720	771	1	3	2	428	246	680
1977-78	91	793	884	1	4	2	473	213	693
1978-79	191	748	939	1	3	2	566	207	779
1979-80 ^b	160	814	974	1	4	2	496	325	828

^a Beginning October 1.

Source: Feed Situation, Economics and Statistics Service, U.S. Department of Agriculture (various issues).

^b Estimated as of October, 1980.



Great Plains where rainfall is usually inadequate for corn and soybean production (Figure 1). The area of concentrated production extends from southern Nebraska to the Texas gulf coast. The leading states in sorghum production are Kansas, Missouri, Nebraska, and Texas (Table 2). In 1977 these four states produced 688 million bushels of sorghum, 87 percent of the total U.S. production. About 32 percent of all the sorghum produced in the nation was used for feed and seed on the farms where it was produced, and about 62 percent was sold from farms.

PURPOSE OF STUDY

Analysis of grain flow patterns can reveal the geographical nature of grain markets and the type of transportation services required by the grain industry. This information is useful to grain firms in identifying additional marketing opportunities and in making decisions about where to locate new handling, storage, and processing facilities. Of equal importance is the value of this information to those who set federal and state transportation policies. The formulation of rational grain transportation policies depends upon knowledge of existing grain flows and associated transportation modes. In many situations, firms or public agencies make decisions affecting the production, storage, and transportation of grain without adequate information about grain distribution patterns and the demands that those decisions will place on the various transportation modes. The objectives of this study were:

- 1. To determine the volume of sorghum moving between various origins and destinations
- To determine the extent to which the various transportation modes are employed in the movement of sorghum in the U.S.

METHODOLOGY

For the purposes of this study, the United States was divided into 132 numbered regions and 31 ports, as shown in Figure 2. Data from the 31 ports were aggregated into 13 port areas located in four major export regions. The specific ports included in each port area are listed with their identifying numbers in Table 3. Sorghum flow data were collected for the 1977 calendar year primarily through personal interviews with representatives of grain handling, storage, and processing firms in 41 states. The firms from which data were obtained included country elevators, inland terminal elevators, river terminal elevators, feed manufacturers, export elevators, commercial feedlots, and processing

firms. A representative from each state's Agricultural Experiment Station was responsible for drawing the sample and conducting the interviews.

The sampling of inland grain elevators in the particular state was carried out by listing the elevators in descending order of storage capacity. Starting with the largest, elevators were added to the sample until the total of their storage capacities was equal to at least 25 percent of the inland elevator storage capacity in that state. Not less than 10 percent of the remaining elevators were then selected at random. For river elevators the procedure was simpler: a minimum of 50 percent of the elevators were selected by random sampling.

Feed manufacturing firms in each state were arrayed on the basis of their production capacity. Starting with the largest, feed firms on the list were added to the sample until the total of their production capacities equalled or exceeded 10 percent of the total feed manufacturing capacity in the state. Ten percent more of the remaining firms were then selected at random and included in the sample. All exporters and processors were included in the interviews.* Data based on random samples were expanded in proportion to the sampling rate to convert the data into estimates for the entire region or state.

The same types of information were gathered from all the grain handlers and processors interviewed. Each firm was asked to identify the volume of grain that it received from each region and the volume that moved by each mode of transportation. The firms were also asked to identify each region or port area for which their shipments were destined and the quantity shipped by each mode.

Experiment Station representatives verified the accuracy of the data collected, expanded the sample data to state totals, and delivered the summary data for each grain and for every substate region to the U.S. Department of Agriculture for processing. As receivers' and shippers' data were tabulated, the Experiment Station representative in each state checked any discrepancies to identify potential data errors and to arrive at a single number for each origin-destination pair. Insofar as possible, the state representatives checked data to ascertain that they were consistent and logical.

VERIFICATION OF DATA

The accuracy of the data on the volume of sorghum shipped between the various origins and destinations by each mode of transportation was verified by several direct and indirect comparisons with data from other sources. One indirect check was made by adding receipts to the surplus or deficit† to obtain the supply

Table 2. Production, Farm Use, and Sales of Sorghum by State for the 1977 Crop

State	Production	Used on farms where produced	Sales
	thous	ands of bush	nels
Arizona	. 7,200 . 13,104	576 720 2,228 964	153 6,480 10,876 8,672
Colorado	. 672 . 4,096	2,201 511 2,212 550	5,952 161 1,884 620
lowa	. 243,000 . 1,824	1,279 89,910 1,058 264	1,089 153,090 766 396
Mississippi	. 67,890 . 146,970	276 31,908 36,742 2,117	492 35,982 110,228 9,643
North Carolina Oklahoma South Carolina South Dakota	. 21,470 . 192	1,385 8,588 154 7,899	1,279 12,882 38 8,908
Tennessee	. 230,400	816 57,600 387	204 172,800 43
U.S. Total	792,983	250,345	542,638

Source: Field Crops: Production, Disposition, Value, 1977-1978, Economics and Statistics Service, U.S. Department of Agriculture, CrPr 1 (79) (April 11, 1979), p. 6.

available for shipment from each state. Exact correspondence between the supply and reported shipments was not expected since the data on sorghum consumption by livestock and processors were based on estimates. Any major discrepancies, however, were investigated to verify that they did not indicate significant errors in the survey data.

A second check on total volume was made by comparing total receipts at each port with official data on inspections for export as published by the Market News Service of the U.S. Department of Agriculture (Table 4). Because there were few opportunities for either set of data to miss significant volumes, these numbers compared very closely. Discrepancies between receipts and exports at some of the port areas were explained by shipments to domestic destinations from export elevators, shipments to processing plants located in the port area, and changes in inventory.

Supplemental information about grain shipments on inland waterways was provided by the U.S. Army Corps

^{*} Only one major processor did not provide data for the study. Data on receipts by that firm were estimated from information furnished by shippers.

[†] The surplus or deficit for each state was calculated by adding the 1977 production to the stocks in all positions as of January 1, 1977, then subtracting the amount used for livestock, processors, and seed and deducting the stocks in all positions as of January 1, 1978.

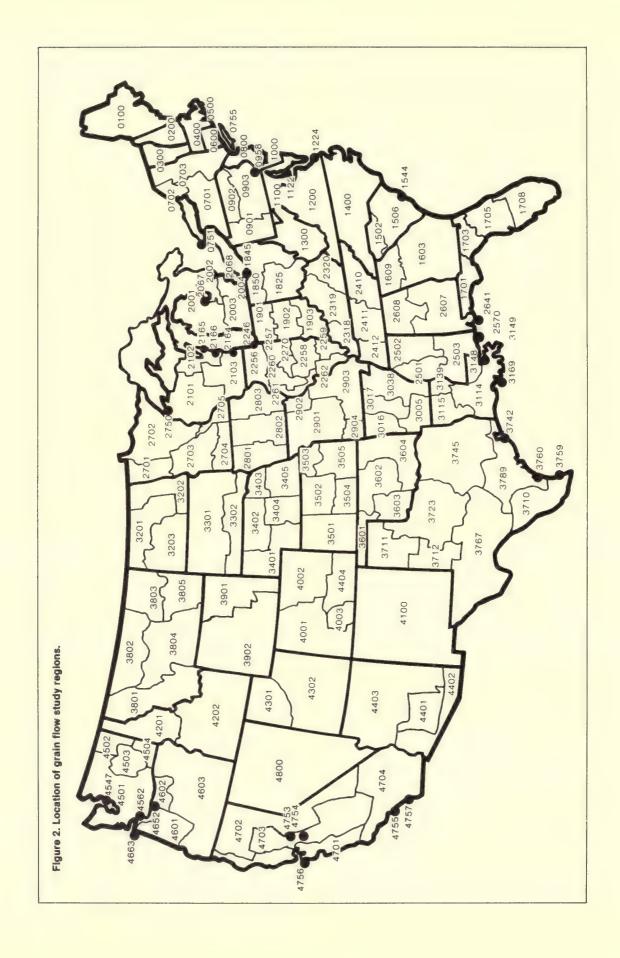


Table 3. Export Regions, Port Areas, and the Ports Included in Each Area

Export region	and port area	Ports incl	uded in the general area
Area number	Export area	Port number	Port city
Great Lakes Region			
7101	Duluth-Superior	2750	Duluth, MN Superior, WI
7102	Chicago	2164	Milwaukee, WI
		2165	Manitowoc, WI
		2166	Racine, WI
		2246	Chicago, IL
7103	Toledo	1845	Toledo, OH
			Huron, OH
			Erie, PA
		0751	Buffalo, NY
7104	Saginaw	2067	Carrollton, MI
			Saginaw, MI
			Zilwaukee, MI
		2068	Detroit, MI
Itlantic Region			
7201	North Atlantic	0101	Portland, ME
		0755	Albany, NY
		0958	Philadelphia, PA
7202	South Atlantic	1122	Baltimore, MD
		1224	Norfolk, VA
		1544	North Charleston, S
Gulf Region			
7301	East Gulf	2570	Pascagoula, MS
		2641	Mobile, AL
7302	Louisiana Gulf	3149	Mississippi River
		3169	Lake Charles, LA
7303	North Texas Gulf	3742	Beaumont, TX
		• • • • • • • • • • • • • • • • • • • •	Port Arthur, TX
			Houston, TX
			Galveston, TX
7304	South Texas Gulf	3759	Brownsville, TX
		3760	Corpus Christi, TX
acific Region			
7401	Columbia River	4562	Kalama, WA
			Longview, WA
			Vancouver, WA
		4652	Portland, OR
		4663	Astoria, OR
7402	Puget Sound	4547	Seattle, WA
	3-1-2-11-1		Tacoma, WA
7403	California Ports	4753	Sacramento, CA
		4754	Stockton, CA
		4755	Long Beach, CA
		4756	San Francisco, CA
		4757	San Diego, CA

^{*} These port areas will be used in this report to avoid disclosure of data from individual firms.

of Engineers. Since these data were based on the actual bill of lading for each shipment they were, in principle, a complete census of all barge shipments. As Table 5 shows, the survey data and the Corps data on state-tostate shipments on inland waterways correspond closely. Differences between the two sets of data can be explained by (1) a significant number of shipments for which the origins and destinations are noted as "unknown" in the Corps data, (2) changes in the destination of a barge after it left the loading dock, (3) incomplete reporting of loadings to the Corps of Engineers, and (4) reporting errors by survey respondents. The sizeable shipments from Minnesota in the Corps data suggest that errors may be present in recording the type of grain being shipped since sorghum is not produced in that state.

The last method of validation provides important insight into data available from the U.S. Department of Transportation that are based on a 1 percent sample of all rail bills of lading. These data were expanded to develop estimates of annual shipments and receipts in each state and then compared with the rail shipments reported by survey respondents (Table 6). There are many similarities, but there are also a few major differences. In Nebraska, for example, intrastate shipments were seriously understated in the 1 percent waybill sample.

Table 4. Comparison of 1977 Sorghum Receipts, Shipments, and Inspections for Export at Various Port Areas

Port	Quantities of by su	Inspections	
areaª	Receipts	Exports	for export ^b
	thous	sands of bu	shels
Great Lakes Region	0	0	0
Atlantic Region	0	0	0
Gulf Region East Gulf Louisiana Gulf North Texas Gulf South Texas Gulf	11,126 135,425 93,300	7,854 132,010 91,100	0 5,526 127,062 91,173
Subtotal Pacific Region Columbia River Puget Sound California	15 2,196 2,093	230,964 15 1,641 1,919 3,575	223,761 0 1,378 1,869 3,247
Total		234,539	227,008

^a See Table 3 for a list of ports.

The comparisons between various data sources increase the confidence in the accuracy of estimates derived from sampling a less than perfectly identified population. The logic of each flow reported in these tables has been checked by the university person that organized the survey in each state. Where internal inconsistencies were found, the data and the sampling rates were adjusted with assistance from grain specialists and industry personnel in the state. The flow esti-

Table 5. Comparison of 1977 Waterway Movements of Sorghum in the U.S. as Reported by Survey Respondents and the U.S. Army Corps of Engineers

Originating state	Destination state	Survey results	Corps of Engineers data
		thousands	of bushels
Arkansas	Louisiana	2,010	723
	Texas	0	200
	Subtotal	2,010	923
Florida	Louisiana	246	66
	Texas	0	224
	Subtotal	246	290
Illinois	Louisiana	100	616
	Texas	989	153
	Other	0	88
	Subtotal	1,089	857
lowa	Texas	0	38
Kansas	Louisiana	552	214
Kentucky	Louisiana	0	46
	Texas	0	98
	Subtotal	0	144
Louisiana	Louisiana	160	174
	Texas	0	196
	Subtotal	160	370
Minnesota	Louisiana	0	1,381
	Missouri	0	351
	Subtotal	0	2,732
Mississippi	Louisiana	0	48
Missouri	Louisiana	2,966	2,566
	Texas	1,024	_1,510
	Subtotal	3,990	4,076
Oklahoma	Louisiana	0	71
	Texas	0	54
	Subtotal	0	125
Tennessee	Louisiana	815	816
	Texas	0	210
	Subtotal	815	1,026
Texas	Texas	0	1,266
U.S. Total		8,862	12,061

^b Inspections for export under the U.S. Grain Standards Act and reported in *Grain Market News*, Agricultural Marketing Service, U.S. Department of Agriculture, Vol. 26, No. 2 (January 13, 1978), p. 18.

mates presented in the following sections represent the best information available on the actual volume of sorghum transported between the regions of the United States.

Table 6. Comparison of 1977 Rail Movements of Sorghum as Reported by Survey Respondents and as Estimated from the 1 Percent Waybill Sample in Selected States

Originating state	Destination state	Survey results	Waybill data
		thousands	
Colorado	California	3,979	4,120
Colorado	Texas	1,604	1,078
	Other	178	692
	Subtotal	5,761	5,890
Kansas	Arkansas	5,007	1,349
	Arizona	4,955	2,442
	California	8,420	8,968
	Colorado	768	2,856
	Kansas	31,316	30,424
	Louisiana	802	0
	Missouri	7,229	3,952
	Oklahoma	2,785	2,967
	Texas	49,622	51,772
	Other	324	468
	Subtotal	111,228	105,197
Missouri	Arkansas	1,635	1,164
	California	2,075	0
	Kansas	1,966	1,496
	Louisiana	17	668
	Missouri	8,313	3,184
	Texas	14,607	14,430
	Washington	172	428
	Other	99	0
	Subtotal	28,893	21,370
Nebraska	Arizona	1,295	1,699
	California	4,373	4,455
	Colorado	1,890	1,710
	Kansas	11,147	12,374
	Missouri	574	4,109
	Nebraska	52,194	6,087
	Texas	58,374	60,412
	Other	1,341	7,511
	Subtotal	131,287	98,357
Oklahoma	Oklahoma	215	1,653
	Texas	3,538	2,463
	Other	725	361
	Subtotal	4,478	4,477
Texas	Arizona	2,850	4,152
	California	11,082	9,639
	Texas	61,706	50,737
	Other	3,358	0
	Subtotal	78,996	64,528

OVERVIEW OF MOVEMENTS

This section summarizes selected data and presents a general overview of sorghum movement patterns. Detailed data on receipts and shipments for each region are presented in the last section of this bulletin.

Shipments and Receipts by State

In 1977, grain marketing firms in the United States reported shipping about 671 million bushels of sorghum. About 60 percent of the amount shipped moved to destinations within the state in which it originated. Much of the total amount, of course, is accounted for by the same grain being shipped in sequence by several firms. Intrastate shipments for each state and mode of transportation are summarized in Table 7. Trucks were the predominant mode of transportation, accounting for about 58 percent of the total intrastate shipments. Rail shipments accounted for 38 percent of the total amount shipped, and 4 percent moved to local farmers. A sizeable portion of the intrastate movements consisted of shipments from country elevators to terminal elevators for storage and reshipment. Movements within the state of Texas accounted for more than one-half of the total volume of intrastate movements in the United States. Sizeable movements also occurred within the states of Kansas and Nebraska.

In contrast to intrastate movements, the predominant mode of transportation used for interstate shipments was the railroad, which carried 217 million bushels or 83 percent of the total volume (Table 8). Almost three-fourths of the volume moving by railroads originated in Kansas and Nebraska. Kansas, Texas, and California were the principal destinations for shipments originating in Nebraska. Texas and California were the principal destinations for Kansas's rail shipments, and Arkansas, Missouri, and Arizona were also important destinations. Over 5 million bushels moved by rail from Kansas to each of these states.

Interstate truck movements originating in Kansas accounted for almost one-half of the volume shipped across state lines by truck. Most of these shipments moved short distances to the neighboring states of Missouri, Oklahoma, and Texas, where some of the grain was used by feed processors and the balance was stored and later reshipped to port areas.

Barges carried only 3.3 percent of the sorghum shipped across state lines, and Arkansas, Illinois, and Missouri originated 81.5 percent of the total volume shipped in the U.S. by barge. All sorghum shipped by barge, regardless of the state in which it originated, was destined for Gulf Ports.

The volume of sorghum received in each state from other states is shown in Table 9. Texas port areas were the predominant destinations. Arizona and California were the most important domestic markets in the West while Arkansas and Louisiana were important domestic markets in the South. The domestic flow pattern for sorghum is illustrated in Figure 3.

Table 7. 1977 Intrastate Shipments of Sorghum for Each State and Mode of Transportation

Originating		Mode of tra	nsportation		Total
state	Rail	Truck	Barge	Farm truck®	TOtal
		thous	ands of bush	els	
Alabama	10	47	0	0	57
Arizona	583	8,065	0	4,109	12,757
Arkansas	0	10,521	0	78	10,599
California	1,543	2,316	0	0	3,859
Florida	0	76	0	0	76
Georgia	0	52	0	2	54
Illinois	0	226	0	150	376
lowa	0	183	0	0	183
Kansas	31,316	17,097	0	0	48,413
Louisiana	0	623	160	0	783
Mississippi	0	82	0	0	82
Missouri	8,313	5,943	0	0	14,256
Nebraska	52,194	31,269	0	7,553	91,016
New Mexico	0	0	0	5,447	5,447
North Carolina	32	32	0	0	64
Oklahoma	215	215	0	0	430
Texas	61,706	158,400	0	0	220,106
Total volume	155,912	235,147	160	17,339	408,558
Percentage of					
total volume	38.2	57.6	0	4.2	100.0

^a This column reports sales by elevators to farmers within the state. Not all states included farm sales in their survey responses, so these data are incomplete and underestimate total shipments to farmers.

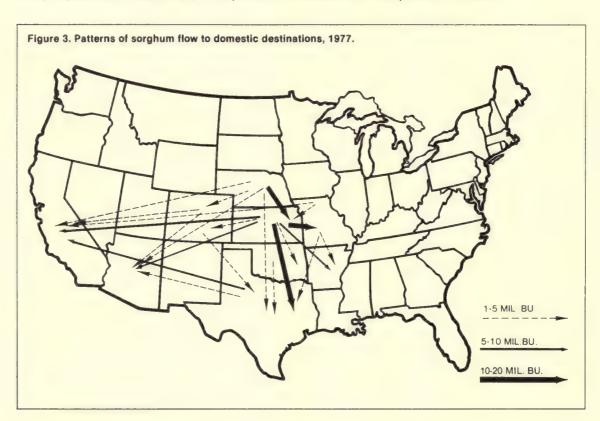


Table 8. 1977 Interstate Shipments of Sorghum for Each State and Mode of Transportation

Originating	Mode of transportation				
state	Rail	Truck	Barge	Farm truck ^a	Total
		thous	ands of bush	rels	
Arizona	94	71	0	0	165
Arkansas	5,838	2,429	2,010	0	10,277
Colorado	5,761	927	0	0	6,688
Florida	0	0	246	0	246
Illinois	1,938	284	1,089	0	3,311
lowa	2,054	258	0	0	2,312
Kansas	79,912	16,448	552	171	97,083
Kentucky	0	32	0	0	32
Louisiana	12	51	0	0	63
Missouri	20,580	3,080	3,990	0	27,650
Nebraska	78,994	3,974	0	1,796	84,764
New Mexico	484	3,724	0	0	4,208
Oklahoma	4,263	1,535	0	0	5,798
South Dakota	98	28	0	0	126
Tennessee	0	32	815	0	847
Texas	_17,290 ^b	1,700	0	0	18,990
Total volume	217,318	34,573	8,702	1,967	262,560
Percentage of					
total volume	82.8	13.2	3.3	0.7	100.0

^a This column reports sales by elevators to farmers in other states. Not all states included farm sales in their survey responses, so these data are incomplete and underestimate total shipments to farmers.

b Includes 2,780,000 bushels shipped by rail to Mexico.

Movements to Ports

Table 10 shows the amount of sorghum that moved to port locations from each of the originating states by the various modes of transportation. Almost one-half of the volume of sorghum that moved to ports originated in Texas, and the Gulf region accounted for 98.5 percent of the total amount received by all ports. Over 64 percent of the sorghum shipped to ports went by rail. Nebraska, Kansas, and Texas were the states that shipped the largest volume of sorghum by rail for export, accounting for over 85 percent of the total amount of sorghum shipped to the port regions. Missouri shipped a significant amount by rail and ranked fourth among all states that originated sorghum rail shipments to port regions. Thirty-two percent of the sorghum shipped to port regions went by truck. Texas was the state that shipped the largest amount by truck, accounting for almost 94 percent of the 79 million bushels that moved by truck to ports. Less than 9 million bushels were shipped by barge to port regions, and over one-half of this volume originated in Missouri. These movements are illustrated in Figure 4.

Each state's share of the total volume of sorghum shipped to port regions is shown in Figure 5. Texas was

the state that shipped the greatest amount of sorghum for export, accounting for 48.6 percent of the total amount shipped. Nebraska and Kansas shipped significant volumes, ranking second and third, respectively, among all states that originated sorghum shipments to port locations. Combined, these two states accounted for almost two-fifths of the total volume moving to port locations.

The estimated amount of sorghum received at all port areas in 1977 totaled 243 million bushels, of which 227 million bushels were inspected for export (Table 11). The remainder was either processed or represented increases in sorghum stocks at port elevators during 1977. Over 98 percent of sorghum exports were handled by Gulf port elevators, and the North Texas Gulf was the predominant port area, accounting for 56 percent of the total volume exported. The South Texas Gulf area ranked second on the basis of volume, and over 91 million bushels were handled through those facilities in 1977.

Foreign Destinations for U.S. Exports

Sorghum shipped from the various origins to a specific port area is blended and stored on a commingled basis. Thus it is not possible to trace the movement of

sorghum from a particular state through the port system to its final destination, and therefore no attempt was made to determine whether a particular ocean vessel was loaded with, for example, Kansas sorghum or Texas sorghum. It is nonetheless of interest to examine one more link in the market chain that connects U.S. farmers with foreign feeders and processors.

The destination countries for sorghum exported from the major port regions of the United States are shown in Table 12. In 1977 Japan was the leading buyer of U.S. sorghum, accounting for 89 million bushels or 39 percent of the total volume exported. Israel, Mexico, Portugal, and Spain were the next most important destinations and in combination purchased about the same quantity as Japan. Venezuela and Columbia were major destinations in South America, and sizeable quantities were shipped to European countries.

Data on receipts and shipments for individual state and substate areas delineated in the survey are presented in the following section.

Table 9. 1977 Interstate Receipts of Sorghum for Each State and Mode of Transportation

Destination		Mode of tra	nsportation		T . A . I
state	Rail	Truck	Barge	Farm truck ^a	Total
		thous	ands of bush	rels	
Alabama	233	80	0	0	313
Arizona	9,624	2,934	0	0	12,558
Arkansas	6,894	1,551	0	0	8,445
California	30,431	243	0	0	30,674
Colorado	2,658	876	0	0	3,534
Connecticut	167	0	0	0	167
Illinois	83	214	0	0	297
lowa	133	96	0	0	229
Kansas	13,362	4,002	0	0	17,364
Kentucky	86	0	0	0	86
Louisiana	6,036	52	6,689	0	12,777
Minnesota	203	28	0	0	231
Mississippi	303	368	0	0	67
Missouri	7,929	4,595	0	946	13,47
Nebraska	14	23	0	288	32
Nevada	3	0	0	0	
New Mexico	0	12	0	0	12
Ohio	125	0	0	0	125
Oklahoma	2,922	1,898	0	0	4,820
Oregon	15	0	0	0	15
Tennessee	675	160	0	48	883
Texas	132,022	15,576	2,013	0	149,61
Utah	289	0	0	0	289
Washington	331	1,865	0	0	2,196
Total volume	214,538	34,573	8,702	1,282	259,095
Percentage of					
total volume	82.8	13.3	3.4	0.5	100.0

^a This column shows elevator receipts in each state from farmers located in all other states as reported by elevators in the receiving states.

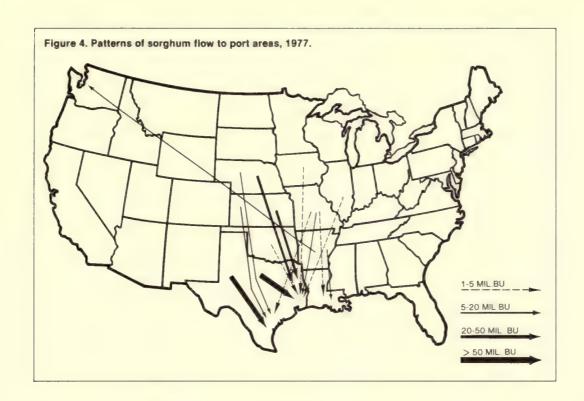


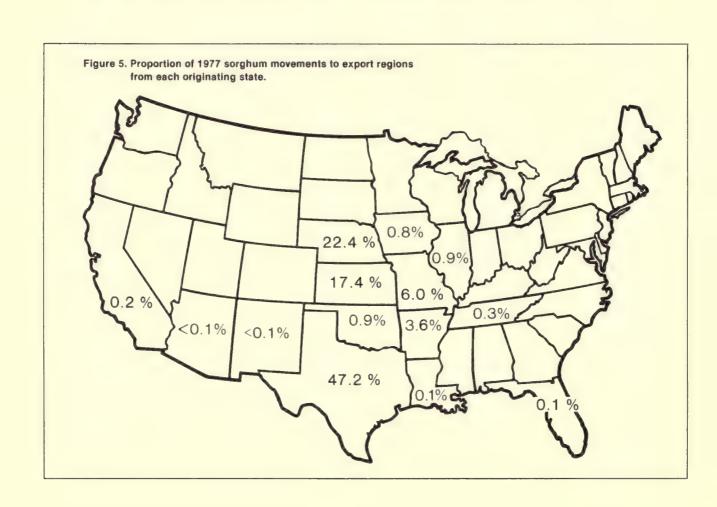
Table 10. 1977 Movements of Sorghum to Points of Export for Each Originating State by Three Modes of Transportation

Originating	Export	Mode	e of transporta	tion	Total
state	region	Rail	Truck	Barge	Total
			thousands of	bushels	
Arizona	Gulf	94	0	. 0	94
Arkansas	Gulf	4,865	0	2,010	6,875
	Pacific	0	1,865	0	1,865
Florida		0	0	246	246
Illinois	Gulf	1,128	0	1,089	2,217
lowa	Gulf	1,941	0	0	1,941
Kansas	Gulf	38,949	3,114	552	42,615
	Pacific	241	0	0	241
Louisiana	Gulf	12	22	160	194
Missouri	Gulf	10,514	13	3,990	14,517
	Pacific	172	0	0	172
Nebraska	Gulf	53,779	45	0	53,824
	Pacific	1,285	0	0	1,285
New Mexico	Gulf	122	0	0	122
Oklahoma	Gulf	2,186	0	0	2,186
Tennessee	Gulf	0	0	815	815
Texas	Gulf	39,045	74,160	0	113,205
	Pacific	187	0	0	187
	Mexico	2,780	0	0	2,780
All states	Gulf	152,635	77,354	8,862	238,851
	Pacific	1,885	1,865	0	3,750
	Mexico	2,780	0	0	2,780
Total volume	•••••	157,300	79,219	8,862	245,38
Percentage of					
		64.1	32.3	3.6	100.0

Table 11. 1977 Receipts of Sorghum at Port Areas by Each Mode of Transportation

Export region		Mode of tra	n	Total	Inspections		
and port area	Rail	Truck	Barge	Farm trucka	receipts	for export	
			thousand	s of bushels			
Great Lakes Region	0	0	0	0	0	0	
Atlantic Region	0	0	0	0	0	0	
Gulf Region							
Louisiana Gulf	4,255	22	6,849	0	11,126	5,526	
North Texas Gulf	97,546	34,866	2,013	0	134,425	127,062	
South Texas Gulf	50,834	42,466	0	0	93,300	91,173	
Subtotal	152,635	77,354	8,862	0	238,851	223,761	
Pacific Region							
Columbia River	15	0	0	0	15	0	
Puget Sound	331	1,865	0	0	2,196	1,378	
California	1,539	0	0	626	2,165	1,869	
Subtotal	1,885	1,865	0	626	4,376	3,247	
Total receipts	154,520	79,219	8,862	626	243,227	227,008	
Percentage of							
total receipts	63.5	32.6	3.6	0.3	100.0		

^a This column reports receipts at elevators in each port area delivered directly from farmers.



RECEIPTS AND SHIPMENTS BY AREA

Estimates of the flow of sorghum by each mode of transportation and for every area are presented in Tables 13-115. These estimates represent the most comprehensive and best data available on the volume of sorghum transported between each of the regions of the United States.

A detailed study of the flows will likely lead some readers to the conclusion that there are inefficiencies in the shipment of grain among states. Shipping sorghum in both directions between two states is one example of an apparent inefficiency in the marketing pattern. However, most of the shipments reported in this study reflect sellers' attempts to take advantage of profitable marketing opportunities that occur at a particular moment. It is not possible to provide a rationale for all of the movements without complete knowledge of daily price and transportation relationships. Local supply and demand vary throughout the marketing year, and buyers constantly seek the most economical supply source. Changes in supplies, demands, and transportation costs result in frequent changes in the most profitable shipping pattern.

The availability of storage space at harvest time is also an important factor in determining sorghum shipments. If local storage facilities are filled with wheat when sorghum moves from the farms, country elevators may be forced to ship sorghum to various terminal locations such as Kansas City for storage. If these movements are by rail under transit rates, then this grain is committed to moving to domestic and export points beyond the terminal location. Later in the year, available supplies in the local region may be exhausted, and feed mills and livestock feeders in that area will begin purchasing sorghum from outside sources, reversing the earlier outbound flow. Many other factors, such as the availability of transportation, have a substantial impact on sorghum movements. An inadequate supply of rail cars during periods of peak movement may force sorghum to flow in a pattern that would not otherwise be the most economical. A detailed analysis of the influence of these factors is beyond the scope of this publication. Readers interested in more detailed information about the type of firms involved in sorghum movements and the seasonality of these movements should contact Agricultural Experiment Station representatives in the participating states.

Table 12. 1977 Exports of U.S. Sorghum by Export Region and Destination

Destination	Ex	port region ^a	Total				
Destination	Gulf	Pacific	Total				
	thousands of bushels						
Belgium	8,267	0	8,267				
Colombia	3,792	0	3,792				
Cyprus	550	0	550				
Ecuador	83	0	83				
Egypt	993	0	993				
El Salvador	1,173	0	1,173				
Gambia	130	0	130				
Guatemala	165	0	165				
Honduras	442	0	442				
Iran	1,042	0	1,042				
Israel	26,612	0	26,612				
Italy	730	0	730				
Ivory Coast	197	0	197				
Jamaica	286	0	286				
Japan	85,356	3,247	88,603				
Lebanon	173	0	173				
Mexico	24,615	0	24,615				
Netherlands	5,288	0	5,288				
Nicaragua	231	0	231				
Norway	4,708	0	4,708				
Peru	2,041	0	2,041				
Poland	5,786	0	5,786				
Portugal	18,890	0	18,890				
Romania	2,545	0	2,545				
Senegal	1,985	0	1,985				
Spain	18,080	0	18,080				
United Kingdom	1,590	0	1,590				
Venezuela	8,071	0	8,071				
Total	223,761	3,247	227,008				

Source: Grain Market News, Agricultural Marketing Service, U.S. Department of Agriculture, Vol. 26, No. 5 (February 3, 1978), pp. 11-15.

Sorghum was not shipped from the Great Lakes and Atlantic regions during 1977.

TABLE 13. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 2600, ALABAMA

	:: :::::::::::::::::::::::::::::::::::	MODE (DF TRANSI	PORTATIO	· · · · · · · · · · · · · · · · · · ·	mada teori apure godo conce godo godo conce entre prime godo godo godo godo godo
ORIGINATING STATE OR PORT AREA	:	RAIL :	TRUCK : 1		FARM : TRUCK :	TOTAL
may ten one deal too have not over each less day that day label and one one may see the	100 PAGE 01	(*	THOUSANDS	S OF BUS	SHELS)	000 0000 Meda 1800 0000 0100 0000
2200 ILLINOIS		203	0	0	0	203
2300 KENTUCKY		0	32	0	0	32
2400 TENNESSEE		0	32	0	0	32
2600 ALABAMA		10	47	0	35	92
3505 KANSAS		30	16	0	0	46
		1000 1000 1000 1000 anim 1000 0040 1000 1100			**** **** **** **** **** **** **** ****	***************************************
TOTAL VOLUME		243	127	O	35	405

TABLE 14. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 2600, ALABAMA

named before dozen cross orders cross cross states during arrived decreases and another cross cr			0 0000 0000 0000 0000 0000 0000 000 0 0000 0000 0000 0000 0000 0000 000	4 5000 2404 0007 5000 6000 0000 1000 4 5000 5004 5000 6000 6000 0000 1000		THE STATE ABOVE COMM STATE ASSESS ASS
DESTINATION	* * * * * * * * * * * * * * * * * * *	MODE OF	TRANSPO	RTATION		
STATE OR PORT AREA	RA	IL : TR	UCK : BA		ARM : RUCK :	TOTAL
**************************************	M MOCE - COME - MCCC - COME - COME	(ТН	DUSANDS	OF BUSH	ELS)	ON DOOR GOOD SOOD DOOR DOLD GOOD
2600 ALABAMA		10	47	0	0	57
TOTAL VOLUME	en tijde agen gane poje eden jeger	10	47	0	O	57

TABLE 15. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 4401, ARIZONA

	* *	MODE	OF TRANS	SFORTATI	· · · · · · · · · · · · · · · · · · ·	700-2 200-2
ORIGINATING STATE OR FORT AREA	:	RAIL:	TRUCK :	BARGE :	FARM : TRUCK :	TOTAL
	***************************************		(THOUSANI	S OF BUS	SHELS)	1077 0000 0000 0000 0000 0000
2900 MISSOURI		82	0	0	0	82
3404 NEBRASKA		438	0	0	0	438
3405 NEBRASKA		487	308	0	0	795
3501 KANSAS		173	0	0	0	173
3504 KANSAS		3449	173	0	0	3622
3505 KANSAS		132	67	0	0	199
3711 TEXAS		2050	4	0	0	2054
3712 TEXAS		0	1256	0	0	1256
3745 TEXAS		68	0	0	0	68
4000 COLORADO		152	881	0	0	1033
4100 NEW MEXICO		0	180	0	0	180
4401 ARIZONA		583	5360	0	2033	7976
4402 ARIZONA	**	O	1720	O	591	2311
TOTAL VOLUME		7614	9949	0	2624	20187

TABLE 16. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 4401, ARIZONA

\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	1 0000 1000 0000 1001 0000 0000 1000 0000 0000 0000 0000 0000 0000 0000 0000				
و پرسر دوله دوله م و و دوله دوله پسر دول	: MODE	OF TRANS	PORTATIO	: אכ	
DESTINATION STATE OR PORT AREA	RAIL:	TRUCK :	•	FARM : TRUCK :	TOTAL
CHAN CLASS ACCOUNTY COUNTY COU	* COAC COAC COAC COAC ALAN COOK ENTE COOF COAC ENTER (CTHOUSAND	S OF BUS	SHELS)	9000 NICE 2010 6000 6000 9000 6000
4401 ARIZONA	583	5360	0	4109	10052
4402 ARIZONA	0	450	0	0	450
4704 CALIFORNIA	0	71	0	0	71
7304 SO. TEXAS GULF	94	0	0	0	94
TOTAL VOLUME	677	5881	0	4109	10667

TABLE 17. 1977 SORGHUM RECEIFTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 4402, ARIZONA

ORIGINATING	*	· · · · · · · · · · · · · · · · · · ·	OF TRANS	0 0000 0101 0011 0740 0721 7001 1000	о м :	OTES SEEN STEE SALE THEN SEEN SEEN SEEN
STATE OR PORT AREA	:		TRUCK :	BARGE :	FARM : TRUCK :	TOTAL
			(THOUSAN)			
3405 NEBRASKA		370	0	0	0	370
3505 KANSAS		1003	0	0	0	1003
3711 TEXAS		450	0	0	0	450
3712 TEXAS		0	52	0	0	52
4401 ARIZONA		0	450	0	0	450
4402 ARIZONA		0	425	0	1291	1716
TOTAL VOLUME		1823	927	O	1291	4041

TABLE 18. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 4402, ARIZONA

DESTINATION STATE OR FORT AREA	MODE	OF TRANSF		: : RM :	TOTAL
SIMIE ON FORF PINEM	RAIL	TRUCK : 1	BARGE : TR	UCK :	
		CIHOOSANDS	3 OF BUSHE	L5)	
4401 ARIZONA	0	1720	0	0	1720
4402 ARIZONA	0	425	0	0	425
4403 ARIZONA	0	110	0	0	110
TOTAL VOLUME	0	2255	0	0	2255

TABLE 19. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 4403, ARIZONA

ORIGINATING			F TRANSF	PORTATIO		
STATE OR PORT AREA	: RAI	L : T	RUCK : I	BARGE :	TRUCK :	TOTAL
		(T	ноизами	OF BUS	SHELS)	
3505 KANSAS	1	.98	0	0	0	198
3711 TEXAS	2	256	0	0	0	256
3712 TEXAS		14	3	0	0	17
3745 TEXAS		12	0	0	0	12
4100 NEW MEXICO	2	290	10	0	0	300
4402 ARIZONA		0	110	0	261	371
4403 ARIZONA		()	0	0	350	350
TOTAL VOLUME	,	770	123	0	611	1504

TABLE 20. 1977 SORGHUM RECEIFTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3005, ARKANSAS

ORIGINATING	* .	MODE	OF TRANSPO	DRTATIO	· AC	ecce adur nome otto boad sodd ocea pric gymn 2000 toog meat 1420 boa
STATE OR PORT AREA	*	RAIL:	TRUCK : Be			TOTAL
			THOUSANDS	OF BUS	SHELS)	
2200 ILLINOIS 2900 MISSOURI		146 812	0 27	0	0	146 839
3005 ARKANSAS 3038 ARKANSAS		0	0 1297	0	12 378	12 1675
3405 NEBRASKA 3503 KANSAS 3505 KANSAS		0 688 137	27 0 0	0 0	0	27 688 137
TOTAL VOLUME		1783	1351	0	390	3524

TOTAL VOLUME

TABLE 21. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3016, ARKANSAS

FIRMS IN	AREA 3016	, ARKANSAS	2000 0000 0000 9000 0000 0000 00	TO 0200 0000 0000 0000 0000 0000 0000	dila dina codo pull dota suco tova
ORIGINATING	MODE	OF TRANSP	DRTATIC	N :	
STATE OR PORT AREA	RAIL:	TRUCK : B		FARM : TRUCK :	TOTAL
Section 6000 6000 GOOD COURT C	0000 0000 0000 0000 0000 0000 0000 0000 0000	(THOUSANDS	OF BUS	HELS)	ope campa come optic district punish beams
2900 MISSOURI	123	950	0	0	1073
3016 ARKANSAS 3405 NEBRASKA	0 35	0	0	165 0	165 291
3503 KANSAS	3422	256 0	ő	0	3422
3505 KANSAS	406	0	Ö	Ö	406
TOTAL VOLUME	3986	1206	0	165	5357
	GHUM RECEI AREA 3017		ARIOUS	ORIGINS	ВҮ
AND AND AND AND AND AND A A MINISTRAL A A MINISTRAL A A MINISTRAL A A MINISTRAL AND		OF TRANSP			and dive their state date their chief
ORIGINATING STATE OR PORT AREA	:	TRUCK : B	:	FARM :	TOTAL
have then every cure over over their time who does not the date date date the date date date date date date date dat	and each neer have think often dues that each each each object and	(THOUSANDS	OF BUS	HELS)	100 ages 1001 case 1000 alliap camp
2800 IOWA	71	0	0	0	71
2900 MISSOURI	700		0	0	700
3038 ARKANSAS	0	672	0	0	672
3505 KANSAS	221	· · · · · · · · · · · · · · · · · · ·	0	0	221
TOTAL VOLUME	992	672	0	0	1664
TABLE 23. 1977 SORU FIRMS IN	AREA 3038	ARKANSAS			
ORIGINATING		OF TRANSPO			104 CENT 1840 \$174 SERV CENT CENT CENT
STATE OR PORT AREA	RAIL :	TRUCK : BA		FARM : TRUCK :	TOTAL
	(THOUSANDS	OF BUS	HELS)	
2900 MISSOURI	0	291	0	0	291
3038 ARKANSAS	0	8552	0	10876	19428
3505 KANSAS	133				133

133 8843 0 10876 19852

TABLE 24. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3038, ARKANSAS

DESTINATION	. MODE	OF TRANSP	ORTATIO	DN :	affect about codes made about most once pools where codes areas and asset to an
STATE OR PORT AREA	: RAIL :	TRUCK : B	ARGE :	FARM : TRUCK :	TOTAL
		(THOUSANDS	OF BUS	SHELS)	
2400 TENNESSEE	675	160	0	0	835
2500 MISSISSIPPI	0	97	0	0	97
2900 MISSOURI	0	127	0	0	127
3005 ARKANSAS	0	1297	0	0	1297
3017 ARKANSAS	0	672	0	18	690
3038 ARKANSAS	0	8552	0	60	8612
3100 LOUISIANA	0	2	0	0	2
3745 TEXAS	298	178	0	0	476
7302 LOUISIANA GULF	3965	0	2010	0	5975
7303 NO. TEXAS GULF	900	0	()	0	900
7402 PUGET SOUND	0	1865	0	0	1865
TOTAL VOLUME	5838	12950	2010	78	20876

TABLE 25. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 4701, CALIFORNIA

Mine 2005 Sare Rose Sente (1907 1900) (1906 1900) (1906 Sente 1906 Sente 1908 1900 1900 1900 1900 1900 1900 1900			***** **** **** **** **** **** **** ****	**** **** **** **** ****	-0-1 -740 6446 40+1 4451 4045 4046 4	DO 1410 1000 0000 1000 0000 1000
ORIGINATING	:	MODE	OF TRANSPO	RTATIO	N :	
STATE OR PORT AREA	:	RAIL:	TRUCK : BA			TOTAL
			CTHOUSANDS	OF BUS	HELS)	
3404 NEBRASKA		1626	0	0	0	1626
3502 KANSAS		475	Q	()	0	475
3504 KANSAS		206	0	0	0	206
3602 OKLAHOMA		54	0	0	0	54
3723 TEXAS		212	0	0	0	212
3745 TEXAS		261	0	0	0	261
4703 CALIFORNIA		0	1880	0	755	2635
TOTAL VOLUME		2834	1880	Q	755	5469

TABLE 26. 1977 SORGHUM RECEIFTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 4703, CALIFORNIA

ORIGINATING STATE OR PORT AREA	* * * * * * * * * * * * * * * * * * * *	MODE	OF TRANS	** ***** **** **** **** **** **** **** ****	FARM:	TOTAL
\$500 ADMS ADMS COOK ADMS SONO SONO SONO SONO SONO COOK COOK COOK COOK COOK COOK COOK C	*	L/HTP" +	TRUCK •	DHRUE +	TRUCK +	
			(THOUSANI	S OF BU	SHELS>	
3405 NEBRASKA		637	8	0	0	645
3502 KANSAS		0	147	Ö	Ö	147
3504 KANSAS		23	0	0	0	23
3712 TEXAS		0	8	0	0	8
3745 TEXAS		15	0	0	0	15
4703 CALIFORNIA		0	310	0	5093	5403
TOTAL VOLUME	444	675	473	0	5093	6241

TABLE 27. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 4703, CALIFORNIA

cont toda acce acce total true mane duty total cont cont cont cont cont cont cont cont			**************************************		0000 0000 0000 0000 0000 0000 0000
DESTINATION STATE OR PORT AREA	*	OF TRANSPO	: FA	RM :	TOTAL
the dee and the deer can bee deer the deer can be the can all all of the see the see the	ag com mon mon mon con con ann ann con	CTHOUSANDS	OF BUSHE	LS)	Open Bade 1997 Hall Gove 1999
4701 CALIFORNIA	0	1880	0	0	1880
4703 CALIFORNIA	0	310	0	0	310
4704 CALIFORNIA	1543	126	0	0	1669
TOTAL VOLUME	1543	2316	0	0	3859

TABLE 28. 1977 SORGHUM RECEIFTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 4704, CALIFORNIA

		DEC 2008 1000 2000 2000 2000 2000 2000 2000	emper before soon bloom began older gelage soon deltag Bolden soon soon beken began began belan selan selan	1000 00m2 obts 0000 took phot ongo q	000 0000 0000 0000 0000 0000 1000 0000 000 0000 0000 0000 0000 0000 0000	these than apper the total base the services
ORIGINATING		MODE	OF TRANS	PORTATIO	DN :	
STATE OR PORT AREA	:	:	*	*	FARM :	TOTAL
	:	RAIL:	TRUCK :	BARGE :	TRUCK :	
			(THOUSAND	S OF BU	SHELS)	occo con bis best set its year
2900 MISSOURI		2075	0	0	0	2075
3404 NEBRASKA		68	0	0	0	68
3405 NEBRASKA		931	0	0	0	931
3501 KANSAS		3855	0	0	()	3855
3502 KANSAS		899	0	0	0	899
3503 KANSAS		512	0	0	0	512
3504 KANSAS		1224	0	0	0	1224
3505 KANSAS		985	0	0	0	985
3602 OKLAHOMA		448	0	0	0	448
3711 TEXAS		9813	0	0	0	9813
3712 TEXAS		572	9	0	0	581
3745 TEXAS		22	0	0	0	22
4000 COLORADO		3979	0	0	0	3979
4401 ARIZONA		0	71	0	0	71
4700 CALIFORNIA		0	0	0	643	643
4704 CALIFORNIA		1543	126	0	0	1669
TOTAL VOLUME		26926	206	0	643	27775

TABLE 29. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 4000, COLORADO

	:	UN	**** **** **** **** **** **** **** **** ****	000 2 200 000 000 000 0000 000 000 0 000 000	000 0000 0000 0001 0100 0000 0000 0000	
ORIGINATING	:	MODE	OF TRANSF	PORTATIO	ж	
STATE OR PORT AREA	:	:	:	:	FARM :	TOTAL
	:	RAIL:	TRUCK : E	BARGE :	TRUCK :	out does not than both book
			CTHOUSAND	OF BUS	SHELS)	
3401 NEBRASKA		60	97	0	0	157
3403 NEBRASKA		7	0	0	0	7
3404 NEBRASKA		981	0	0	0	981
3405 NEBRASKA		842	157	0	0	999
3501 KANSAS		95	622	0	0	717
3505 KANSAS		673	0	0	0	673
4000 COLORADO		0	٥	0	3650	3650
TOTAL VOLUME		2658	876	0	3650	7184

TABLE 30. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 4000, COLORADO

		0 5000 2000 0500 0000 0500 0000 0000 00	PROF COST 4480 4580 2580 W050 0080 1014 M	**************************************	**************************************	
DESTINATION	:	MODE	OF TRANS		: MC	
STATE OR PORT AREA	:	RAIL:	TRUCK :	BARGE :	FARM : TRUCK :	TOTAL
	ther ereb sad	P mada mene mene bump pupa 2002 2004 2004	(THOUSANI	OS OF BUS	SHELS)	riva mpas debe suor etta repp esse
3502 KANSAS		18	0	0	0	18
3503 KANSAS		8	18	0	0	26
3711 TEXAS		1355	28	0	0	1383
3712 TEXAS		244	()	0	()	244
3745 TEXAS		5	0	0	0	5
4401 ARIZONA		152	881	0	0	1033
4704 CALIFORNIA		3979	0	0	0	3979
TOTAL VOLUME	othe 1060 oct	5761	927	O	O	6688

TABLE 31. 1977 SORGHUM RECEIFTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 600, CONNECTICUT

ORIGINATING	:	MODE OF	TRANSPO	RTATION			
STATE OR PORT AREA	:	RAIL : TRU	JCK : BA			TOTAL.	
**************************************	DOM 4	(THC	DUSANDS	OF BUSHEL	S)	***************************************	
2200 ILLINOIS		1.67	0	0	0	167	
TOTAL VOLUME		167	0	٥	0	167	

TABLE 32. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 1700, FLORIDA

ORIGINATING	* ****	MODE OF	TRANSPOR	RTATION	*		
STATE OR PORT AREA	: RA	: IL : TR	UCK : BAF		ARM :	TOTAL	
DIF SHE WILL SHE AND THE FIRE THE SHE WILL SHE 	aced both sideo ness bodo taleb nodd o	(TH	OUSANDS (OF BUSH	ELS)	meg gugo utic oppo thing come come	
1700 FLORIDA		0	76	0	179	255	
TOTAL VOLUME		0	76	0	179	255	

TABLE	33.	1977 SORGHUM SHIPMENT	S TO VARIOUS	DESTINATIONS	BY
		FIRMS IN AREA 1700; F	LORTDA		

DESTINATION	: MODE	OF TRAN	SPORTATIO	:	bothe once base twee come come once were
STATE OR PORT AREA	RAIL:	TRUCK :	BARGE :	FARM : TRUCK :	TOTAL
and the color of t	ndd Colord (1000 m000 orden) Colore (spirit februa grossa fermal occus	(THOUSAN	DS OF BUS	SHELS)	over peers year dean each edge gand
1700 FLORIDA 7302 LOUISIANA GULF	0	76 0	0 246	0	76 246
TOTAL VOLUME	0	76	246	©	322

TABLE 34. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 1600, GEORGIA

ORIGINATING STATE OR PORT AREA	:	:	OF TRANS	# +	FARM :	TOTAL
			CTHOUSANI	os of Bu	SHELS)	
1600 GEORGIA		0	52	0	61	113
TOTAL VOLUME	ALANG SHARE MADE CHES CHES COSTS	0	52	O	61	113

TABLE 35. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 1600, GEORGIA

DESTINATION STATE OR PORT AREA	:	MODE	OF TRANSF	ORTATIO	ЭN :	
	:	RAIL:	TRUCK : E		FARM : TRUCK :	TOTAL
			CTHOUSANDS	OF BUS	SHELS)	
1600 GEORGIA		0	52	0	2	54
TOTAL VOLUME		0	52	0	2	54

TABLE 36. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 2200, ILLINOIS

THE PRINCIPATION OF THE PR						
ORIGINATING	* MODE	E OF TRANSF				
STATE OR PORT AREA	: RAIL	: TRUCK : E		FARM : TRUCK :	TOTAL	
tives what make year time year over their rook and dade dade dade dade them year time pain make	Description 1980 1980 1980 1980 1980 1980 1980 1980	(THOUSANDS	of Bus	SHELS)	ande dese alle soci soci dese	
2200 ILLINOIS	0	226	0	1525	1751	
2300 KENTUCKY	0	0	0	735	735	
2900 MISSOURI	0	0	0	392	392	
3405 NEBRASKA	0	214	0	0	214	
3503 KANSAS	83	0	0	0	83	
		**** **** **** **** **** **** **** **** ****	***************************			
TOTAL VOLUME	83	440	0	2652	3175	

TABLE 37. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 2200, ILLINOIS

97. 977 973 997 NO A A AND NO AND A	: MODE	OF TRANS	PORTATIO	אכ			
DESTINATION							
STATE OR PORT AREA	:	:	:	FARM :	TOTAL		
	: RAIL :	TRUCK :	BARGE :	TRUCK:			
deer able root goes buy then here man mine signs part the maps have appreciant and display ofter o	agus annus ainme dessel màrab solant mòrab stata depara desta mò	/ TI (0110 A) 17	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				
		(THOUSAND	5 Ur BU	SHEL57			
600 CONNECTICUT	167	0	0	0	167		
2200 ILLINOIS	0	226	0	150	376		
2500 MISSISSIPPI	294	0	0	0	294		
2600 ALABAMA	203	0	0	0	203		
2900 MISSOURI	0	284	0	0	284		
3005 ARKANSAS	146	0	0	0	146		
7302 LOUISIANA GULF	196	0	100	0	296		
7303 NO. TEXAS GULF	583	0	989	0	1572		
7304 SO. TEXAS GULF	349	0	0	0	349		
TOTAL VOLUME	1938	510	1089	150	3687		

TABLE 38. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 2800, IOWA

ORIGINATING	: MODE	OF TRANSF			TOO more some 5 of each stad made too too some too or the some some some some some some some som
STATE OR PORT AREA	RAIL:	TRUCK : B		ARM :	TOTAL
GOOD STATE S	(a) (mans) (botto) (412 570) (440 440) 4400 (400) 4000 (400)	CTHOUSANDS	OF BUSH	(ELS)	000 600F 500F 20FF 386F 4486 Quan
2800 IOWA	0	183	0	162	345
3403 NEBRASKA	64	16	0	0	80
3405 NEBRASKA	69	80	0	0	149
TOTAL VOLUME	133	279	0	162	574

TABLE 39. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 2800, IOWA

	0 0000 0000 0000 0000 0000 1000 0000 0	0000 0001 0004 0101 0001 0001 0000 0001 0000 0000 0000 0000 0000 0000 0000 0000	+ 0000 0000 0000 0000 0000 00 • 0000 0000	nin 6000 cred time 6000 new 600s c-	
DESTINATION :-	MODE	OF TRANSPOR	TATIO	· · · · · · · · · · · · · · · · · · ·	
STATE OR PORT AREA :	RAIL:	TRUCK : BAR		FARM :	TOTAL
		(THOUSANDS C	F BUSH	HELS)	
2500 MISSISSIPPI	0	220	0	0	220
2800 IOWA	0	183	0	0	183
2900 MISSOURI	28	0	0	0	28
3017 ARKANSAS	71	0	0	0	71
3405 NEBRASKA	14	19	0	0	33
3503 KANSAS	0	19	0	0	19
7302 LOUISIANA GULF	94	0	0	0	94
7303 NO. TEXAS GULF	1644	0	0	0	1644
7304 SO. TEXAS GULF	203	0	0	0	203
TOTAL VOLUME	2054	441	0	0	2495

TABLE 40. 1977 SORGHUM RECEIFTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3500, KANSAS

wide many took white dear ferm) took over copil from code more copil many copil many base pore page page page more copil from the copil from code wide page page more copil from the copil from copil from the copil fro		e equi bred debt cabb topt debt beet beet beet vote abbe debt pe	0 0000 0000 0000 1000 0100 0011 1014 0140 0000 10	14 +305 0044 1004 0044 0000 0000 0005 0040 14 0000 0044 0054 0054 0055 0055 0040
ORIGINATING STATE OR PORT AREA	: MODE	OF TRANSFORT	ATION FARM	: : TOTAL
after draw and your cost and they cold copy may take also been took cook took took copy over cost	: RAIL:	TRUCK : BARG		
		THOUSANDS OF	BUSHELS)	
3501 KANSAS	0	457	0 (457
3502 KANSAS	0	1422	0 (1422
3503 KANSAS	0	687	0 (687
3504 KANSAS	460	112	0 (572
3505 KANSAS	•••• •••• •••• •••• •••• ••• ••• •••	667	0 (667
TOTAL VOLUME	460	3345	0 (3805

TABLE 41. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3501, KANSAS

code made \$400 made owns about below come below code about a	101 1000		**** **** **** **** **** **** **** ****	0000 4000 4000 4000 1000 11 0400 4400 9001 5014 1000 11	00 1000 1001	1000 1011 1100 2000 0100 0100 0100 0000 0	000 0000 0100 1010 0111 1100 0007 0700 000 0001 0100 1011 0111 1000 1007 0700
ORIGINATING	•	MODE	OF TRAN	SPORTA	TI	DN .	• •
STATE OR PORT AREA	*	:	:		:	FARM	TOTAL
	:	RAIL:	TRUCK :	BARGE	:	TRUCK	*
	-		***** **** **** **** **** ****				000 1100 0101 0011 pada 6410 0000 0000
			(THOUSAN	DS OF	BU	SHELS)	
3501 KANSAS		0	398		0	47297	47695
TOTAL VOLUME		0	398	1000 and 1000 car 1000 to	0	47297	47695

TABLE 42. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3501, KANSAS

**************************************	: MODE	OF TRANS	SPORTATIO	: אם	
DESTINATION STATE OR PORT AREA	RAIL	TRUCK :	BARGE :	FARM : TRUCK :	TOTAL
		(THOUSAN	DS OF BU	SHELS)	
2900 MISSOURI	246	2706	0	0	2952
3500 KANSAS	0	457	0	0	457
3501 KANSAS	0	398	0	0	398
3502 KANSAS	2473	21	0	0	2494
3503 KANSAS	139	183	0	0	322
3504 KANSAS	1921	216	0	0	2137
3505 KANSAS	365	0	0	0	365
3711 TEXAS	0	2220	0	0	2220
3712 TEXAS	1231	0	0	0	1231
3723 TEXAS	191	277	0	0	468
3745 TEXAS	50	79	0	Ō	129
4000 COLORADO	95	622	0	0	717
4401 ARIZONA	173	0	0	0	173
4704 CALIFORNIA	3855	0	0	0	3855
7303 NO. TEXAS GULF	26	0	0	0	26
TOTAL VOLUME	10765	7179	0	0	17944

TABLE 43. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3502, KANSAS

ORIGINATING STATE OR PORT AREA	:	MODE : RAIL :	OF TRANS	BARGE :	FARM: TRUCK:	TOTAL
THE CHAIN AND THE THE THE THE STATE CHAIN	and plane upon	Mater and and their pain often and and and	(THOUSANI	OS OF BU	SHELS)	agas ques asso abre que covo credi
2900 MISSOURI		73	0	٥	0	73
3401 NEBRASKA		123	ō	0	0	123
3402 NEBRASKA		194	0	0	0	194
3404 NEBRASKA		117	32	0	171	320
3405 NEBRASKA		1303	202	0	0	1505
3501 KANSAS		2473	21	0	0	2494
3502 KANSAS		2451	3101	0	50941	56493
3503 KANSAS		1644	105	0	0	1749
3504 KANSAS		146	0	0	O	146
3505 KANSAS		1261	12	0	0	1273
3602 OKLAHOMA		71	0	0	0	71
4000 COLORADO		18	0	0	0	18
TOTAL VOLUME		9874	3473	0	51112	64459

TABLE 44. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3502, KANSAS

\$000 \$000 0000 0000 0000 0000 1000 0000 0000 0000 0000 0000 0000 0000 0000					
THE CONTRACT TO SE	: MODE	OF TRANS	SPORTATI	ON :	
DESTINATION STATE OR PORT AREA	RAIL	TRUCK :	BARGE :	FARM : TRUCK :	TOTAL
		(THOUSAN)	DS OF BU	SHELS)	
2900 MISSOURI	1609	271	0	0	1880
3404 NEBRASKA	0	0	0	171	171
3500 KANSAS	0	1422	0	0	1422
3502 KANSAS	2451	3101	0	0	5552
3503 KANSAS	3826	302	0	0	4128
3504 KANSAS	2467	698	0	0	3165
3505 KANSAS	1642	52	0	0	1694
3602 OKLAHOMA	0	554	0	0	554
3711 TEXAS	0	1110	0	0	1110
3723 TEXAS	0	128	0	0	128
3745 TEXAS	0	697	0	0	697
4701 CALIFORNIA	475	0	0	0	475
4703 CALIFORNIA	0	147	0	0	147
4704 CALIFORNIA	899	0	0	0	899
7303 NO. TEXAS GULF	6520	412	0	0	6932
7304 SO. TEXAS GULF	987	0	. 0	0	987
7403 CALIFORNIA	68	0	0	0	68
TOTAL VOLUME	20944	8894	O	171	30009

TABLE 45. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3503, KANSAS

ORIGINATING STATE OR PORT AREA	* * * * * * * * * * * * * * * * * * * *	MODE RAIL:		BARGE :	FARM : TRUCK :	TOTAL
2800 IOWA		0	(THOUSAND	0	0	19
2900 MISSOURI 3404 NEBRASKA		1627 1625	1372	0	0	2999 1625
3405 NEBRASKA 3501 KANSAS 3502 KANSAS		2814 139 3826	2198 183 302	0	0	5012 322 4128
3502 KHNSHS 3503 KANSAS 3504 KANSAS		1805	1546	0	23252	26603
3505 KANSAS 3604 OKLAHOMA		1819 59	1229	0	0	3048 59
4000 COLORADO		4700	18	0	07050	26
TOTAL VOLUME		13822	6867	0	23252	43941

TABLE 46. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3503, KANSAS

0000 0007 0000 0000 0000 0000 0000 000	100 page todd 1000 1000 1000 1100 1100 1100 1100 1	prof 6000 0000 0000 0000 0000 0000 0000 00	\$660	0000 deem come none roce unique anno a 1900 have salve born have only 2000 b	0+1 0+00 0000 adds othe oppo accor
:	MODE	OF TRANSP	ORTATIO	N :	
DESTINATION	9862 TOOK GOOD GOOD SAGE \$650 COTS			***********************	
STATE OR PORT AREA	RAIL:	TRUCK : B	-	FARM :	TOTAL.
	• RH.L. •	TRUCK + B	HRUL +	TRUCK :	100 0000 0000 0000 0100 0100 0100
		CTHOUSANDS	OF BUS	HELS)	
2200 ILLINOIS	83	0	0	0	83
2900 MISSOURI	3822	173	0	0	3995
3005 ARKANSAS	688	0	0	0	688
3016 ARKANSAS	3422	0	0	0	3422
3100 LOUISIANA	688	0	0	0	688
3500 KANSAS	0	687	0	0	687
3502 KANSAS	1644	105	0	O	1749
3503 KANSAS	1805	1546	0	O	3351
3504 KANSAS	238	()	0	0	238
3505 KANSAS	3105	2090	0	0	5195
3602 OKLAHOMA	1181	0	0	0	1181
3604 OKLAHOMA	342	0	0	0	342
3711 TEXAS	285	0	0	0	285
3745 TEXAS	3382	0	0	0	3382
4704 CALIFORNIA	512	0	0	0	512
7302 LOUISIANA GULF	. 0	0	552	0	552
7303 NO. TEXAS GULF	11621	1330	0	0	12951
7304 SO. TEXAS GULF	7468	21	0	٥	7489
TOTAL VOLUME	40286	5952	552	0	46790

TABLE 47. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3504, KANSAS

COLD COME COME COME COME COME COME COME COME	0000 0000 0000 00 0000 0000 0000 000	00 0400 0000 0000 0000 0000 0000 0000 00 0000 0000 0000 0000 0000 0000 0000	- 4400 5000 4-40 0000 0000 0000 0000 000	007 0000 0000 1000 0000 0000 0000 0000	### ### ### ### ### ### ### ### ### ##	
ORIGINATING	:	MODE	OF TRANS	SPORTATI	ON :	
STATE OR PORT AREA	:	RAIL:	TRUCK :	BARGE :	FARM : TRUCK :	TOTAL
			(THOUSANI	OS OF BU	SHELS)	
3401 NEBRASKA		108	0	0	0	108
3404 NEBRASKA		60	0	0	0	60
3405 NEBRASKA		330	4	0	0	334
3501 KANSAS		1921	216	0	0	2137
3502 KANSAS		2467	698	0	0	3165
3503 KANSAS		238	0	0	O	238
3504 KANSAS		2877	1438	0	18120	22435
3505 KANSAS		664	754	0	0	1418
3601 OKLAHOMA		93	28	0	0	121
TOTAL VOLUME		8758	3138	٥	18120	30016

TABLE 48. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3504, KANSAS

	0000 0000 0000 0000 0000 1000 1000 0000 0	1000 1000 1000 1000 1000 1000 1000 100	9 #960 0000 0000 0000 0000 dates dates on	ir irong gama amin aron naga a to troo make gama amin open s	000 0000 0000 0000 mos 0000 0000
*	MODE	OF TRANSPO	RTATION	:	
DESTINATION :	MANO PARO 9000 MANO 0000 0000 0000 0000 0	DE- 0500 8000 1000 1000 6104 DISE 1000 1000 1000 1000	to the contract of the same about the	;	
STATE OR PORT AREA :	*	*			TOTAL
*	RAIL:	TRUCK : BA	RGE : TR	RUCK :	
code adde ande tipos code mode mode code code code code code code adde pode adde code code code code code code	***************************************	2 T 1 2 T 1 2 T 1 2 T 1 2 T 1 T 1 T 1 T	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		000 0000 0000 0000 0000 0000 0000
		CTHOUSANDS	UF BUSHE	LLS/	
2900 MISSOURI	0	731	0	0	731
3500 KANSAS	460	112	0	0	572
3502 KANSAS	146	0	Ö	0	146
3503 KANSAS	100	0	Ö	0	100
3504 KANSAS	2877	1438	0	0	4315
3505 KANSAS	108	0	0	0	108
3602 OKLAHOMA	1216	457	0	0	1673
3711 TEXAS	1274	1110	0	0	2384
3723 TEXAS	320	162	0	0	482
3745 TEXAS	0	696	0	0	696
3789 TEXAS	151	138	0	0	289
4401 ARIZONA	3449	173	0	0	3622
4701 CALIFORNIA	206	0	0	0	206
4703 CALIFORNIA	23	0	0	0	23
4704 CALIFORNIA	1224	0	0	0	1224
7303 NO. TEXAS GULF	2220	0	0	0	2220
7304 SO, TEXAS GULF	1577	0	0	0	1577
7403 CALIFORNIA	24	0	0	0	24
TOTAL VOLUME	15375	5017	0	0	20392
1000 AND 1001 COTO COTO COTO COTO COTO COTO COTO COT					000 NO NOT F AND

TABLE 49. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3505, KANSAS

ents and som the tops of t		a creat from cond which come ands come come come come come cond sector cond	0 0000 0000 0000 0000 1000 1000 0000 10	000 0000 -000 0000 1700 0010 0000 0000	
OBTOTALATING	: MOI	E OF TRANSP	ORTATIO	אכ	
ORIGINATING STATE OR PORT AREA	***************************************	* ***	*	FARM :	TOTAL
102 1 7 1 7 1000 1007 7 7 107 8 7 10 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RAIL	: TRUCK : B	-	TRUCK :	1 40 1 1 100
dots abbe water varie tobis ness name dress passe ness, good negat mages penest mage apens pages pages		(THOUSANDS	OF BUS	SHELSY	***************************************
		(I I I O O O HI AD O	or not	2716m box 627	
2900 MISSOURI	266	0	0	0	266
3404 NEBRASKA	1108	0	0	0	1108
3405 NEBRASKA	3365	404 4000 4	0	0	3494
3501 KANSAS	365	_	0	()	365
3502 KANSAS	1642		0	0	1694
3503 KANSAS	3105		0	0	5195
3504 KANSAS	108	_	0	70007	108
3505 KANSAS	1805	1607	0	32986	36398
TOTAL VOLUME	11764	3878	0	32986	48628

TABLE 50. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3505, KANSAS

					0000 0000 0000 0000 1000 0000 0000
DESTINATION	MODE	OF TRANS	PORTATION	٠	
STATE OR PORT AREA :	RAIL:	TRUCK :		FARM :	TOTAL
		CTHOUSAND	S OF BUSI	HELS)	
1825 OHIO	125	0	0	0	125
2300 KENTUCKY	86	0	0	0	86
2600 ALABAMA	30		0	0	46
	1552		0	0	1855
3005 ARKANSAS	137	0	0	0	137
3016 ARKANSAS	406 221	0	0	0	406 221
3017 ARKANSAS 3038 ARKANSAS	133	0	0	0	133
3100 LOUISIANA	114	Ó	Ó	0	114
3500 KANSAS	0	667	ŏ	Ö	667
3502 KANSAS	1261	12	0	0	1273
3503 KANSAS	1819	1229	0	0	3048
3504 KANSAS	664	754	0	0	1418
3505 KANSAS	1805	1607	0	0	3412
3602 OKLAHOMA	46	0	0	0	46
3604 OKLAHOMA	0	497	0	0	497
3711 TEXAS	933	0	0	0	933
3723 TEXAS 3745 TEXAS	311 2386	0	0	0	311 2386
3745 TEXHS	159	Ö	O	Ö	159
4000 COLORADO	673	ŏ	ŏ	Ö	673
4401 ARIZONA	132	67	Ŏ	Ö	199
4402 ARIZONA	1003	0	0	0	1003
4403 ARIZONA	198	0	0	0	198
4704 CALIFORNIA	985	0	0	0	985
7303 NO. TEXAS GULF	5860		0	0	7190
7304 SO. TEXAS GULF	2670		0	0	2691
7403 CALIFORNIA	149	0	0	0	149
TOTAL VOLUME	23858	6503	Ŏ	0	30361

TABLE	51.	1977	SORGHUM	RECEIPT	S FROM	VARIOUS	ORIGINS	BY
		FTRMS	TN AREA	2300.	KENTUCK	:Y		

		- 2000 1000 2000 2011 1-000 2000 1-000 2000 2		NOTE OF THE PARTY
ORIGINATING	* MODE	OF TRANSPORTA	TION :	
STATE OR PORT AREA	RAIL	: TRUCK : BARGE	: FARM : : TRUCK :	TOTAL
data more toba noon same tupe two mind 1000 took data cose data cose took cose toba cose took cose				
		(THOUSANDS OF I	BUSHELS)	
3505 KANSAS	86	0	0	86
TOTAL VOLUME	86	O (0	86

TABLE 52. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 2300, KENTUCKY

DESTINATION	* MC	DE OF	TRANSPOR	TATION	= = = = : :	nee 88-4 M200 M000 NOT-0 M20-0 D000 OOK M000 W00- 0000 M20-0 W000 O-00
STATE OR PORT AREA	RAIL	: TRU	ICK : BAR			TOTAL
been then then the core and one	econ days meat each some copy come poor tast	(THO	USANDS O	BUSHE	_S)	nda cilino anna gusta utraa anno enga
2600 ALABAMA		0	32	0	0	32
TOTAL VOLUME		0	32	0	0	32

TABLE 53. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3100, LOUISIANA

ORIGINATING	: MODE	OF TRANSPO	RTATIO		and the will core near the stem of the core core core core core core core cor
STATE OR PORT AREA	RAIL	TRUCK : BA	RGE :	FARM : TRUCK :	TOTAL
	,	(THOUSANDS	OF BUS	SHELS)	
2900 MISSOURI	17	0	0	0	17
3038 ARKANSAS	0	2	0	0	2
3100 LOUISIANA	0	579	0	475	1054
3405 NEBRASKA	673	Q	0	0	673
3503 KANSAS	688	0	0	0	888
3505 KANSAS	114	0	0	0	114
3745 TEXAS	289	50	0	0	339
7302 LOUISIANA GULF	0	22	0	0	22
TOTAL VOLUME	1781	653	0	475	2909

TABLE	54.	1977 SORGHU	M SHIPMENTS	TO VARIOUS	DESTINATIONS	BY
		ETRMS TN AR	EA 3100 - 101	ITSTANA		

MICE WARK COME THAN ARROW COME FROM ARROW COME THAN ARROW COME THAN ARROW COME COME COME COME COME COME COME COME	: MODE (OF TRANSPO	DRTATION	Dec 1000 1001 1000 1000 1000	mins equa ques para equa equa alpa este ques prob estes
DESTINATION STATE OR PORT AREA	: RAIL : 1	FRUCK : B		RM :	TOTAL
eine mater einer solle japen daten diebe solle solle solle solle solle solle date solle solle solle solle solle	Control and the pro-	THOUSANDS	OF BUSHE	LS)	0000 0000 0000 0000 0000 0740
2500 MISSISSIPPI	0	51 579	0	0	51 579
3100 LOUISIANA 7302 LOUISIANA GULF 7303 NO₊ TEXAS GULF	0	22	140	0	182 12
TOTAL VOLUME	12	652	160	0	824

TABLE 55. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 2700, MINNESOTA

	: MODE	OF TRAN	SPORTATI	 	0000 0001 more boss ours older 0000 0000 1000 0000 0100 0116 0016
ORIGINATING STATE OR PORT AREA	• • • • • • • • • • • • • • • • • • • •	: TRUCK :	*	FARM :	TOTAL
were dalle webs com cycle som came space black space codes actus space black chief adult form there show to	OF YORK THAT THEN AND AND AND AND AND AND AND	(THOUSAN			code point point from code when code
2700 MINNESOTA	35	0	0	37	72
3302 SOUTH DAKOTA	0	28	0	0	28
3404 NEBRASKA 3405 NEBRASKA	32 171	0	0	0	32 171
TOTAL VOLUME	238	28	O	37	303

TABLE 56. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 2700, MINNESOTA

DESTINATION STATE OR PORT AREA	* ************************************	TRANSPOR	: FA		TOTAL
man also take after also also cons also cons also cons also cons also cons also des also tons also tons and tons	Camp GALC GEAR COOK COOK DITCH THIS WHICH COOK GROW SHIP HIT	OURANDS (000 0040 0000 0000 0000 5140 6000
2700 MINNESOTA	35	0	0	0	35
TOTAL VOLUME	35	0	0	0	35

TABLE 57. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 2500, MISSISSIPPI

ORIGINATING	* MOD	E OF TRAN	SPORTATIO	C III III III III III III II II II II II	## ## ## ## ## ## ##
STATE OR PORT AREA	RAIL	: TRUCK :		FARM : TRUCK :	TOTAL
		(THOUSAN	DS OF BUS	SHELS)	
2200 ILLINOIS	294	0	0	0	294
2500 MISSISSIPPI	0	82	0	0	82
2800 IOWA	0	220	0	0	220
2900 MISSOURI	9	0	0	0	9
3038 ARKANSAS	0	97	0	0	97
3100 LOUISIANA		51	0	0	51
TOTAL VOLUME	303	450	0	0	753

TABLE 58. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 2500, MISSISSIPPI

FIRST SEAS CARS ATT-0 6400 FERS CARS CARS CARS CARS CARS CARS CARS CA	* 100* 100* 0000 0000 0000 0000 0000 00	union nimed 6000 9000 neng come neven nimes tibes tober could could come nimes interes and cred tober 1000 nimes down them term never never never cred could nime nove nimes and nimes nim	o coco thee cope ages ages ages ages come coco coco coco coco coco coco coco
DESTINATION STATE OR PORT AREA	***************************************	TRANSPORTATION : : F4 UCK : BARGE : TF	ARM : TOTAL
#670 50-0 1000 0000 0000 7700 0100 0000 0111 Date 7500 0000 7100 0110 1017 1000 1017 1000	***** ***** PAGE TOOK TARK ***** **** **** **** **** **** ****	Shert stock \$5+0 1510 1515 1510 1510 1510 1500 1500 1	
	(TH	OUSANDS OF BUSHE	LS)
2500 MISSISSIPPI	O	82 0	0 82
TOTAL VOLUME	0	82 0	0 82

TABLE 59. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 2900, MISSOURI

	0 0000 0000 0000 0000 0000 0000 0000 0000	=======================================	140 0000 8000 8000 5000 0000 0000 0000 241 0001 0086 0016 0000 0000 0000 0006	STURN 0004 0504 0040 0440 0000 1004 1004 1004	0-06 00M 0000 0000 0000 0000 00++ 0000 0000
ORIGINATING	MODE	OF TRANS	SFORTATI	ON :	
STATE OR PORT AREA	RAIL:	TRUCK :	BARGE :	FARM : TRUCK :	TOTAL
		CTHOUSANI	OS OF BU	SHELS)	
2200 ILLINDIS	٥	284	0	0	284
2800 IOWA	28	0	0	946	974
2900 MISSOURI	8313	5943	0	22816	37072
3038 ARKANSAS	0	127	0	0	127
3302 SOUTH DAKOTA	98	0	0	0	98
3403 NEBRASKA	11	0	0	0	11
3404 NEBRASKA	98	0	0	0	98
3405 NEBRASKA	465	0	0	0	465
3501 KANSAS	246	2706	0	0	2952
3502 KANSAS	1609	271	0	0	1880
3503 KANSAS	3822	173	0	0	3995
3504 KANSAS	0	731	0	0	731
3505 KANSAS	1552	303	0	0	1855
TOTAL VOLUME	16242	10538	0	23762	50542

TABLE 60. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 2900, MISSOURI

FIRMS IN	AKEA 2900	on massuur			this pool upon the cost plan dies
DESTINATION	: MODE	OF TRANS	SPORTATIO	3 N :	0000 1000 1000 PAPE STON 0000 0000
STATE OR PORT AREA	RAIL	TRUCK :	BARGE :	FARM : TRUCK :	TOTAL.
		(THOUSANI	OS OF BUS	SHELS	
2500 MISSISSIPPI	9	0	0	0	9
2900 MISSOURI	8313	5943	0	0	14256
3005 ARKANSAS	812	27	0	0	839
3016 ARKANSAS	123	950	O	0	1073
3017 ARKANSAS	700	0	0	0	700
3038 ARKANSAS	0	291	0	0	291
3100 LOUISIANA	1.7	0	0	0	17
3405 NEBRASKA 3502 KANSAS	0 73	4	0	0	4 73
3503 KANSAS	1627	1372	0	ő	2999
3505 KANSAS	266	13/2	0	Ö	266
3604 OKLAHOMA	17	ő	ő	ŏ	17
3711 TEXAS	14	ő	o	ő	14
3712 TEXAS	0	36	o	ő	36
3723 TEXAS	1873	387	ŏ	ŏ	2260
3745 TEXAS	2206	0	0	0	2206
4401 ARIZONA	82	0	0	0	82
4704 CALIFORNIA	2075	0	0	0	2075
7302 LOUISIANA GULF	0	0	2966	0	2966
7303 NO. TEXAS GULF	6178	0	1024	0	7202
7304 SO. TEXAS GULF	4336	1.3	0	0	4349
7402 PUGET SOUND	172	O	O	٥	172
TOTAL VOLUME	28893	9023	3990	0	41906

TABLE 61. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3401, NEBRASKA

**** **** **** **** **** **** **** **** ****		000 1001 0000 0100 1211 0101 0101 0003 0000 1216 0102 000 100 000- 0001 0000 0001 1011 0100 0100	- 1044 1446 1504 0 1001 0-04		
ORIGINATING	MODE	OF TRANSPO	RTATIO	N :	
STATE OR PORT AREA	: RAIL:	TRUCK : BA		FARM : TRUCK :	TOTAL
		CTHOUSANDS	OF BUS	HELS)	9000 and mad deep pro- 9000
3401 NEBRASKA	0	13	0	325	338
3403 NEBRASKA	0	20	0	0	20
3404 NEBRASKA	0	26	0	0	26
TOTAL VOLUME	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	59	0	325	384

TABLE 62. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3401, NEBRASKA

DESTINATION STATE OR PORT AREA	* ************************************		OF TRANS	100 D000 D000 0000 0000 0000 0000 page 0	DN :	TOTAL
	:	RAIL:	TRUCK :	*		B \$04" 4 \$ 6 8000
	-10 000 000 01		(THOUSANI	OS OF BUS	SHELS	ones more under even appe dead ques
3401 NEBRASKA		0	13	0	86	99
3404 NEBRASKA		44	11	0	0	55
3405 NEBRASKA		28	0	0	0	28
3502 KANSAS		123	0	0	0	123
3504 KANSAS		108	0	0	0	108
4000 COLORADO	941	60	97	0	64	221
TOTAL VOLUME	2000 1000 agos qu	363	121	0	150	634

TABLE 63. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3402, NEBRASKA

AND THE								
ORIGINATING	: M	ODE OF	TRANSPORT	ATION	:			
STATE OR PORT AREA	: RAI	: L : TRU	: CK : BARG	: FARM E : TRUC		TOTAL		
100 CHE 100 AND 100 CHE 100 EVE 100 AND 100 CHE 100 CH	og rödy engb måde töse börð södd eröb	(THO	USANDS OF	BUSHELS)			
3402 NEBRASKA		0	58	0	0	58		
TOTAL VOLUME	ros seas rodo casos eros papos crisca tobay	O	58		0	58		

TABLE 64. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3402, NEBRASKA

DESTINATION	: MODE	OF TRANSP	ORTATION	# # # # # # # # # # # # # # # # # # #	ober oder den tentr oder den det dete Det over men tede tide men oder
STATE OR PORT AREA	RAIL:	TRUCK : B		ARM :	TOTAL
110 and 100 and 111 feet with 100 that 100 and		(THOUSANDS	OF BUSH	ELS)	pgg 6364 1490 0100 4000 0101 1000
3402 NEBRASKA	0	58	0	0	58
3502 KANSAS	194	0	0	0	194
TOTAL VOLUME	194	58	0	0	252

4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	GHUM RECEI AREA 3403			ORIGINS	EY
2 mm Augus alast 2002 2004 2004 2004 60.1 2100 4004 1210 6004 2010 6004 1101 6004 1111 6004 1011 1101 1211 1211	: MODE	OF TRANS	PORTATI	אס :	1 0000 0000 0000 0000 0000
ORIGINATING STATE OR PORT AREA	: RAIL:	TRUCK :			TOTAL
the Main Week Shore Shore order coder Charle Shore Shore Shore Shore Charle Shore Sh	**************************************	(THOUSANI	S OF BU	SHELS)	, 110
3302 SOUTH DAKOTA	0	0	0	42	42
3403 NEBRASKA	0	950	0	2876	
3405 NEBRASKA	29	176	·	43	248
TOTAL VOLUME	29	1126	O	2961	4116
* * * * * * * * * * * * * * * * * * * *	GHUM SHIFM AREA 3403			DESTINAT	IONS BY
4- to to the A 7 t V th A 5271	: MODE	OF TRANS	SPORTATIO	אכ	
DESTINATION STATE OR PORT AREA	: RAIL :	: TRUCK :		FARM :	TOTAL
Mark base 4100 2501 2507 2507 1507 1502 1502 1502 1503 1503 1503 1503 1504 1507 1507 1507 1507 1507 1507 1507 1	adds gold dibo aboo bear seed oney tean need app	(THOUSANI	S OF BU	SHELS)	Elley debt Gree Gode Gree term seen
2800 IOWA	64	16	0	0	80
2900 MISSOURI 3401 NEBRASKA	11	0 20	0	0 28	11 48
3402 NEBRASKA	ŏ	0	Ö	28	28
3403 NEBRASKA	0	950	0	181	1131
3404 NEBRASKA 3405 NEBRASKA	50 380	761 870	0	28 28	839 1278
4000 COLORADO	7	0	O	0	7
7303 NO. TEXAS GULF	18	16	0	0	34
TOTAL VOLUME	530	2633	0	293	3456
TABLE 67. 1977 SOR FIRMS IN	AREA 3404	. NEBRASK			
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	: MODE	OF TRANS	SPORTATI	אם :	
ORIGINATING STATE OR FORT AREA	: RAIL :	TRUCK :		FARM :	TOTAL
NAME AND THE OWN PARK HOLD HAS MANY COME COME CAME THEN THEN THEN COME COME COME COME COME COME COME COME		(THOUSAND			MORE DODG OVER THEIR STORE COME AND
3401 NEBRASKA	44	11	0	0	55
3403 NEBRASKA		761			811
3404 NEBRASKA 3405 NEBRASKA		5180 1108		21281 102	31885 3135
3502 KANSAS	0	0		171	
TOTAL VOLUME		7060	Ö		36057

TABLE	68.	1977 SORGHUM	SHIPMENTS TO VARIOUS	DESTINATIONS	BY
		FIRMS IN ARE	A 3404 NERRASKA		

E di. F. VI Fig. di. F. Vi e di Companya del	W 1000 0000 0000 0000 0010 0000 0000 00			000 4000 0000 0000 0000 0000 0000 0000	TO AT 1-100 AND
DESTINATION	: MODE	OF TRANS	PORTATIO	אכ	
STATE OR PORT AREA	:	:		FARM :	TOTAL
	: RAIL	TRUCK :	BARGE :	TRUCK :	
and dight plane state types copy that they again state after some code often code often plant tode some says con	å nock over com coco copo coco dece deve news w	(THOUSAND	S OF BUS	SHELGY	***************************************
		(111000111(1)	0 01 1.01	3111	
2700 MINNESOTA	32	0	0	0	32
2900 MISSOURI	98	0	0	0	98
3401 NEBRASKA	0	26	0	0	26
3404 NEBRASKA	5424	5180	0	3626	14230
3405 NEBRASKA	1019	299	0	0	1318
3502 KANSAS	117	32	0	0	149
3503 KANSAS	1625	0	0	0	1625
3504 KANSAS	60	0	0	0	60
3505 KANSAS	1108	0	0	0	1108
3602 OKLAHOMA	9	48	0	0	57
3711 TEXAS	264	0	0	0	264
3712 TEXAS	128	0	0	0	128
3745 TEXAS	636	0	0	0	636
4000 COLORADO	981	0	0	1267	2248
4401 ARIZONA	438	0	0	0	438
4701 CALIFORNIA	1626	0	0	0	1626
4704 CALIFORNIA	68	0	0	0	68
4800 NEVADA	3	0	0	0	3
7303 NO. TEXAS GULF	8299	0	0	0	8299
7304 SO. TEXAS GULF	1679	0	0	0	1679
7402 PUGET SOUND	89	0	0	0	89
7403 CALIFORNIA	65	0	0	0	65
TOTAL VOLUME	23768	5585	0	4893	34246

TABLE 69. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3405, NEBRASKA

ORIGINATING	MOD	E OF TRAN	SPORTATI	ON :	
STATE OR PORT AREA	RAIL	: TRUCK :	-		TOTAL
	many pinag code cons cong cons acco spor seem con	(THOUSAN	DS OF BU	SHELS)	COOL COOL COOL DATA AND PART AND
2800 IOWA	1.4	19	0	9	42
2900 MISSOURI	0	4	0	66	70
3401 NEBRASKA	28	0	0	0	28
3403 NEBRASKA	380	870	0	0	1250
3404 NEBRASKA	1019	299	0	521	1839
3405 NEBRASKA	43295	21797	0	95937	161029
	0000 0000 0001 0000 0001 0000 0001	s come pode done come som som come anne	1000 1000 1000 0000 0000 0000 0000 000	**************************************	
TOTAL VOLUME	44736	22989	0	96533	164258

TABLE 70. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3405, NEBRASKA

made deep days took took took out and a see a see took out took out took out took out took out out out out out	**** **** ***	0 0000 0000 0000 0000 0000 0000 0000 0000	- 204 2000 - 204	0000 0000 0000 0000 0000 0000 0000 0000		CHARL COME AND SECTO COME COME
DESTINATION	:	MODE	OF TRAN	SPORTATI	ON :	
STATE OR PORT AREA		:	:	:	FARM :	TOTAL
	:	RAIL :	TRUCK :			1 107 1 1 1 100
**** **** **** **** **** **** **** **** ****	**** ****	1 0061 4765 5180 1000 6160 8680 8680 8680 8660	0+04 0+0+ 0000 +000 part 0+0> 0+00 000>			***** **** **** **** **** ****
			(THOUSAN	DS OF BU	SHELS)	
2200 ILLINOIS		0	214	0	0	214
2700 MINNESOTA		171	0	0	Ó	171
2800 IOWA		69	80	0	O	149
2900 MISSOURI		465	0	0	0	465
3005 ARKANSAS		0	27	0	0	27
3016 ARKANSAS		35	256	0	465	756
3100 LOUISIANA		673	0	0	0	673
3401 NEBRASKA 3403 NEBRASKA		0 29	•	0	1	1
3404 NEBRASKA		1925	176 1108	0	351 29	556 3062
3405 NEBRASKA		43295	21797	ő	3167	68259
3502 KANSAS		1303	202	ő	0.07	1505
3503 KANSAS		2814	2198	ő	ŏ	5012
3504 KANSAS		330	4	0	0	334
3505 KANSAS		3365	129	0	0	3494
3602 DKLAHOMA		51	0	0	0	51
3604 DKLAHOMA		60	36	0	4	100
3711 TEXAS		1312	0	0	0	1312
3712 TEXAS		548	108	0	0	656
3745 TEXAS		1707	9	0	0	1716
4000 COLORADO		842	157	0	0	999
4401 ARIZONA 4402 ARIZONA		487 370	308	0	0	795 370
4703 CALIFORNIA		637	8	0	0	645
4704 CALIFORNIA		931	0	0	0	931
7303 NO. TEXAS GULF		28882	29	ő	ő	28911
7304 SO. TEXAS GULF		14901	0	ő	ő	14901
7401 COLUMBIA RIVER		15	ő	ŏ	ŏ	15
7402 PUGET SOUND		70	0	0	0	70
7403 CALIFORNIA		1046	Ö	Ö	0	1046
TOTAL VOLUME	\$100 HOUS 0000	106333	26846	0001 0000 0000 0000 0000 0000 0000	4017	137196

TABLE	71.	1977	SORGHUM	RECEIPTS	FROM	VARIOUS	ORIGINS	BY
		FIRMS	IN ARE	A 4800 N	FUATIA			

F 491 (1 * 7 7 700 C 481 F		7 (Cha V FTA-FT			
ORIGINATING		OF TRANS			other come often come bond come state often come total come total come come come come come come come come
STATE OR PORT AREA	: RAIL:	TRUCK:			TOTAL
		(THOUSAN)	OS OF BU	SHELS)	
3404 NEBRASKA	3	0	0	0	3
TOTAL VOLUME	3	0	0	0	3
	RGHUM RECEI V AREA 4100			ORIGINS	вү
	: MODE	OF TRAN	SFORTATI	. мо :	emp and and one tone the couper of the couper of the tone of t
ORIGINATING STATE OR PORT AREA	: RAIL:	TRUCK:		FARM : TRUCK :	TOTAL
		(THOUSAN)	DS OF BU	ISHELS)	
3712 TEXAS 4100 NEW MEXICO	0	12	-	0 9643	12 9643
TOTAL VOLUME	0	12	0	9643	9655
	GHUM SHIPM I AREA 4100 . MODE		======= KICO		IONS BY
STATE OR PORT AREA	: RAIL :	TRUCK :	BARGE :	FARM : TRUCK :	TOTAL
		(THOUSAN)	OS OF BU	SHELS)	
3711 TEXAS 3712 TEXAS 3767 TEXAS 4401 ARIZONA 4403 ARIZONA 7304 SO: TEXAS GULF	0 0 0 290	1844 1590 100 180 10	0		1590 100
TOTAL VOLUME	484	3724	0	٥	4208

TABLE 74. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 1400, NORTH CAROLINA

ORIGINATING	*		OF TRANSF			OPP DOWN DAYS PARK BOTH AND DAYS
STATE OR PORT AREA	:	RAIL:	TRUCK : I		FARM : TRUCK :	TOTAL
A153 -405 Met 1455 Met 1465 Met 1465 Met 1465 Met 1465 Met 1765 Met 1466 Met 1466 Met 1466 Met 1466 Met 1466 Met	PPS 9800 ***	8 4400 0077 1870 1448 DBDD 1980 3000 3000 0	CTHOUSANDS	OF BU	SHELS)	dud woun done come rades twee dade
1400 NORTH CAROLINA		32	32	0	1414	1478
TOTAL VOLUME	odm ektêr sêr	9,3	52	0	1414	1478

TABLE 75. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 1400, NORTH CAROLINA

	100 0000 0000 0000 0000 0000 0000 0000 0000	1000 1000 1000 1000 1000 1000 1000 100			
:	MODE	OF TRANSPO	DRTATION	:	
		# PT PT 1 1 PT 1 PT 1 PT 1 PT 1 PT 1 PT			TOTAL
	KAIL :	TRUCK : BA	akul I ik	UCK :	
	(THOUSANDS	OF BUSHE	LS)	
64	32	32	O	0	64
	32	32	0	0	64
	***	: RAIL : (RAIL : TRUCK : BA	: RAIL: TRUCK: BARGE: TR (THOUSANDS OF BUSHE 32 32 0	: : : : : : : FARM : : RAIL : TRUCK : BARGE : TRUCK : (THOUSANDS OF BUSHELS) 32 32 0 0

TABLE 76. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 1825, OHIO

early aged been code down down dress once rece rece code twee goes rept mee pero rece term code offer added the rece term of received the received term of t		1000 UP-0 (000 1000 0000 0000 0000 0000 0000 00	750 0000 0000 0000 1000 0000 0000 0000 0	000 0000 0000 0000 0000 0000 0000 0000 0000
ORIGINATING	: MODE	OF TRANSPORTA	ATION	
STATE OR PORT AREA	: RAIL:	TRUCK : BARGE		: TOTAL
	po topia opea ocea unes estas pent eden biom profe ocea	(THOUSANDS OF	BUSHELS	***************************************
3505 KANSAS	125	0	0	0 125
TOTAL VOLUME	125	0	0	0 125

	GHUM RECEI AREA 3601			ORIGINS	BY
ORIGINATING	: MODE	OF TRANS	SPORTATION OF THE PROPERTY OF	: אכ	oth come price oppo accor come accor accor accord a
STATE OR PORT AREA	: RAIL:	TRUCK :		FARM : TRUCK :	TOTAL
		(THOUSANI	OS OF BU	SHELS)	
3601 OKLAHOMA	0	0	\(\)	10664	10664
TOTAL VOLUME	O	O		10664	10664
	GHUM SHIFM AREA 3601			DESTINAT	IONS BY
DESTINATION	MODE	OF TRANS	SPORTATIO	: אם	
STATE OR PORT AREA	RAIL:			FARM : TRUCK :	TOTAL
170 400 500 100 100 100 100 100 100 100 100 1	vere cook year todax (year auto auto, auto tago auto	(THOUSANI	OS OF BU	SHELS)	code advis table gives days grave game
3504 KANSAS	93		0	0	121
3711 TEXAS	1187		0	0	2442
3712 TEXAS 3745 TEXAS	161 4	0	0	- 0	161
7303 NO. TEXAS GULF	•	ő	ő	Ö	791
7304 SO. TEXAS GULF		0	0	0	289
TOTAL VOLUME	2525	1283	Ö	0	3808
	GHUM RECEI AREA 3602			ORIGINS	BY
ORIGINATING	* MODE	OF TRANS	SPORTATI	DN :	
STATE OR PORT AREA	: RAIL:	TRUCK :	BARGE :	FARM : TRUCK :	TOTAL
		(THOUSAN)	OS OF BU	SHELS)	
3404 NEBRASKA	9	48	0	0	57
3405 NEBRASKA	51		0		
3502 KANSAS 3503 KANSAS	0 1181	554 0	0	0	554 1181
3504 KANSAS		457	ő	0	1673
3505 KANSAS	46	0	^	^	AL
3602 DKLAHOMA	78	78	0	2577	2733
TOTAL VOLUME	2581	1137	O	2577	6295

TABLE 80. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3602, OKLAHOMA

DESTINATION	If the part 2007 1007 1000 days ared 0000 peet 0000 1000	OF TRANSPO	DRTATION	*	00 5000 0000 0000 0000 0000 0000 0000
STATE OR PORT AREA	RAIL:	TRUCK : B		ARM :	TOTAL
Cold and the time case 4850 and cold time erry 1966 mile time 1197 feet 5617 5650 day also also also also	9 CATE LOTE STEEL FREE SPACE SEEN COME STEEN MODEL COME	(THOUSANDS	OF BUSHE	LS)	SA 4000 SONO RADO STUD LODO ISSA
3502 KANSAS	71	0	0	0	71
3602 OKLAHOMA	78	78	0	0	156
4701 CALIFORNIA	54	0	0	0	54
4704 CALIFORNIA	448	0	0	0	448
TOTAL VOLUME	651	79	··· ··· ··· ··· ··· ··· ··· ··· ··· ··		729
7 (7) (7 km V C) km (9) (1 km		/ U/	··· ··· ··· ··· ··· ··· ··· ··· ··· ··	· · · · · · · · · · · · · · · · · · ·	

TABLE 81. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3603, OKLAHOMA

### #### #### ##### #### #### #### #### ####		00 1000 1000 1000 1000 1000 1000 1000		0000 0000 0000 0000 0000 0000 0000 0000 0000
ORIGINATING	* MODE	OF TRANSPO	RTATION	MODE SEEM SEEM
STATE OR PORT AREA	: RAIL:	TRUCK : BA		RM : TOTAL UCK :
### COP ### COP	***************************************	THOUSANDS	OF BUSHE	LS)
3603 OKLAHOMA 3712 TEXAS	137 0	137 306	0	3364 3638 0 306
TOTAL VOLUME	137	443	O	3364 3944

TABLE 82. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3603, OKLAHOMA

After Mich 4044 barn hett 1600 oder over soor soor soor door dass dass soor soor soor soor soor soor soor s		00 0000 0000 0000 0000 0000 0000 0000 0000			
DESTINATION	# MODE	OF TRANS	SPORTATIO)N :	
STATE OR PORT AREA	: RAIL :	TRUCK :		FARM : TRUCK :	TOTAL
##10 COM SEED COM 1201 COM 1110 1110 1110 COM COM 1110 COM	000 DD00 6000 0000 X000 0000 0000 0000 0	(THOUSANI	os of Bus	SHELS)	por cine while come code code code
3603 OKLAHOMA	137	137	0	0	274
7303 NO. TEXAS GULF	508	252 0	0	0	252 508
TOTAL VOLUME	645	389	0	0	1034
		d 1400 1400 1600 1600 1600 1600 1601 1600 1600			

TABLE	83.	1977 SORGHUM	RECEIPTS	FROM VARIOUS	ORIGINS BY
		FIRMS IN ARE	A 3604 # 01	CLAHOMA	

ACCA DAME CAME AND AND CAME AND	First wood wood drief rose bree costs break admit dates adde cases		0 MOST 6000 MARY STOP (MASS 6000)		
ORIGINATING	MODE	OF TRANSPO	RTATIO	N :	odla anda anno anno india appy odny
STATE OR PORT AREA	RAIL	: TRUCK : BA		FARM :	TOTAL
600 GAN SAN SAN SAN SAN SAN SAN GAN GAN GAN GAN GAN GAN GAN GAN GAN G	Company and the same area ones ones ones ones ones ones ones ones	THOUSANDS	OF BUS	HELS)	oth ment more onne anne avec avec
2900 MISSOURI	17	O	0	0	17
3405 NEBRASKA	60	36	0	0	96
3503 KANSAS	342	0	0	0	342
3505 KANSAS	0	497	0	0	497
3604 OKLAHOMA	0	0	0	2719	2719
TOTAL VOLUME	419	533	0	2719	3671

TABLE 84. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3604, OKLAHOMA

AND AND BOY DOOR MAN SOME DOOR DAD THE COOK SOME DOOR DOOR DOOR DOOR OWN FINE NAME WAS BOY DOOR BOY DOOR DOOR DAD TOOK DOOR DOOR DOOR DOOR DOOR DOOR DOOR D		**** **** **** **** **** **** **** **** ****			10 Sect 1000 Sect 1001 1000 1001
DESTINATION	COM	E OF TRANSPO	DRTATION		
STATE OR PORT AREA	RAIL	: TRUCK : B		RM : UCK :	TOTAL
		(THOUSANDS	OF BUSHE	LS)	
3503 KANSAS	59	0	0	0	59
7303 NO. TEXAS GULF	598	0	0	0	598
TOTAL VOLUME	657	0	0	0	657

TABLE 85. 1977 SORGHUM RECEIFTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3302, SOUTH DAKOTA

ends dans been stan dast good span door noon same over tope and over tope and the same that the same tope oper	\$400 1000 0000 \$400 0000 \$400 0000 \$400 0000 \$400 0000 0000 0000 0000 0000 0000 0000 0000		1004 1006 5141 5101 5050 5050 5060 5061 5060 5060	
ORIGINATING	: MODE	OF TRANSPORT	ATION	*
STATE OR PORT AREA	RAIL	: TRUCK : BARG		TOTAL
		(THOUSANDS OF	BUSHELS	
3302 SOUTH DAKOTA	٥	0	0 12	6 126
TOTAL VOLUME	0	©	0 12	6 126

TABLE 86. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3302, SOUTH DAKOTA

DESTINATION	* MODE	OF TRANSF	ORTATION	*	THE PART AND ADDRESS OF THE PA
STATE OR PORT AREA	RAIL	: TRUCK : E		RUCK :	TOTAL
211 CAR PRO 100 CAR 110 210 CAR 100 CAR	0000 b000 0020 -227 1007 b000 0000 b007 015E b0	CTHOUSANDS	OF BUSHE	ELS)	and doing dates seems home more doing
2700 MINNESOTA 2900 MISSOURI	0 98	28 0	0	0	28 98
TOTAL VOLUME	98	28	D	0	126

TABLE 87. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 2400, TENNESSEE

	0 0570 -850 0000 0000 0077 3500 4000 0000 0000 4000 0000 0000 0000	10 1000 0000 0000 0000 0000 0000 0000	0000 0000 0000 0000 0000 0000 0000 0000 0000	DP 0000 0000 0000 0000 0000 0000 0000 0
	: MODE	OF TRANSPORT	ATION	:
ORIGINATING	* *************************************	1 2002 0000 1000 0000 0000 0000 0000 00	**** **** **** **** **** **** **** ****	• :
STATE OR PORT AREA	: :	*	: FARM	: TOTAL
		TRUCK : BARG	E : TRUCK	:
		(THOUSANDS OF	BUSHELS	# 1000 0000 0000 0000 0000 0000 U-00 0000 0000
3038 ARKANSAS	675	160	0 4	883
TOTAL VOLUME	675	160		883

TABLE 88. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 2400, TENNESSEE

come bior els fore and their cole mode in the cole of the cole in	*** ****		- 1000			000 0000 0000 0000 0000 0000 0000
DESTINATION STATE OR FORT AREA	:	RAIL : T	RUCK : BA	*	FARM :	TOTAL
	****		НОИЗАНДЯ	OF BUS	SHELS)	and deline sould dead and must make
2600 ALABAMA 7302 LOUISIANA GULF		0	32 0	0 815	0	32 815
TOTAL VOLUME		0	32	815	0	847

TABLE 89. 1977 SORGHUM RECEIFTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3710, TEXAS

	***** **** **** ***					
ORIGINATING STATE OR PORT AREA	:	0 1004 \$100 0101 1044 AMA 0011 MI	OF TRANS	PORTATIO	***** (474) 48-0 2000 -000 0000 0000	OPEN DOOR PITS THE CINE DOES AND ADDRESS A
	:	RAIL :	TRUCK :	BARGE :	FARM : TRUCK :	TOTAL
			CTHOUSAND	S OF BU	SHELS)	stor otto stor blad over cere cone
3710 TEXAS		1867	2660	0	27265	31792
3711 TEXAS		658	2292	0	0	2950
3712 TEXAS		50	0	0	0	50
3723 TEXAS		400	0	0	0	400
3745 TEXAS		14	16	0	0	30
3767 TEXAS		0	100	0	0	100
3789 TEXAS	***	0	252	0	O	252
TOTAL VOLUME	040£ 100£ bod	2989	5320	0	27265	

TABLE 90. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3710, TEXAS

DESTINATION	acomment manual and ma	OF TRANS	SPORTATION OF THE PROPERTY OF		000 000 000 000 000 000 000 000 000
STATE OR PORT AREA	: RAIL	TRUCK:	•	FARM : TRUCK :	TOTAL
		(THOUSAN)	OS OF BU	SHELS)	
3710 TEXAS	1867	2660	0	0	4527
3767 TEXAS	0	50	0	0	50
3789 TEXAS	0	600	0	0	600
7304 SO. TEXAS GULF	5811	5704	0	0	11515
9000 EXPORT	1884	0	0	0	1884
TOTAL VOLUME	9562	9014		0	18576

TABLE 91. 1977 SORGHU FIRMS IN AR	EA 3711	, TEXAS	VARIOUS		
ORIGINATING : -	BOOM	OF TRANS			NOTE SHEET DESCRIPTION OF SHEET SHEE
STATE OR FORT AREA :	RAIL:	TRUCK :			TOTAL
		CTHOUSANI	OS OF BU	SHELS)	
2900 MISSOURI	14	0	0	0	14
3404 NEBRASKA 3405 NEBRASKA	264 1312	0	0	0	264
3501 KANSAS	1312	2220	0	0	1312 2220
3502 KANSAS	ő	1110	ŏ	ŏ	1110
3503 KANSAS	285	0	Ŏ.	Ö	285
3504 KANSAS	1274	1110	0	0	2384
3505 KANSAS	933	0	0	0	933
3601 OKLAHOMA	1187	1255 37443	0	0 61169	2442
3711 TEXAS 3712 TEXAS	2358 127	3835	0	01103	100970 3962
3723 TEXAS	0	400	0	Ö	400
4000 COLORADO	1355	28	ŏ	ŏ	1383
4100 NEW MEXICO	72	1844	0	0	1916
TOTAL VOLUME	9181	49245	0	61169	119595
TABLE 92. 1977 SORGHU FIRMS IN AR	EA 3711	, TEXAS			
DESTINATION :-	PICLUE.	Ur IRAN:			
STATE OR PORT AREA :		TRUCK :	BARGE :	FARM : TRUCK :	TOTAL
		(THOUSANI		SHELS)	
3710 TEXAS	658	2292	0	0	2950
3711 TEXAS	2358	37443	0	0	39801
3712 TEXAS	3495	755	0	0	4250
3723 TEXAS	181	2119	0	0	2300
3745 TEXAS	2460	340	0	0	2800
3767 TEXAS		1002	0	0	1010

		Стпопомира	or boance		
3710 TEXAS	658	2292	0	0	2950
3711 TEXAS	2358	37443	0	0	39801
3712 TEXAS	3495	755	0	0	4250
3723 TEXAS	181	2119	0	0	2300
3745 TEXAS	2460	340	0	0	2800
3767 TEXAS	8	1002	0	0	1010
3789 TEXAS	247	3	0	0	250
4300 UTAH	289	0	0	0	289
4401 ARIZONA	2050	4	0	0	2054
4402 ARIZONA	450	0	0	0	450
4403 ARIZONA	256	0	0	0	256
4704 CALIFORNIA	9813	0	0	0	9813
7303 NO. TEXAS GULF	4116	83	0	0	4199
7304 SD. TEXAS GULF	4465	739	0	0	5204
TOTAL VOLUME	30846	44780	O	0	75626
whose angues until change pages agrice dates comen books before books before the greater black and before the agric.					

TABLE 93. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3712, TEXAS

dead ends date date than have done into anot out that and out to be into out or the contract out of the contract out over proper days date contract out to the contract out of the contrac	* 1000 8650 2000 2100 2101 2001 2001 2000 2000 20	00 thet men the test ents same seen cler the	00 0004 0008 9807 8800 0800 9000 0000 000	000 ruin olde 6000 edde ddda gdas coss 000 teso ylea eddy gant 5000 mag caso	pero como como esca agua cama seug nodo pengo como como cama seug
ORIGINATING	MODE	OF TRANS	PORTATIO	אכ :	
STATE OR PORT AREA	RAIL	TRUCK :	BARGE :	FARM : TRUCK :	TOTAL
		(THOUSANI	S OF BUS	SHELS)	
2900 MISSOURI	0	36	0	0	36
3404 NEBRASKA	128	0	0	0	128
3405 NEBRASKA	548	108	0	0	656
3501 KANSAS	1231	0	0	0	1231
3601 OKLAHOMA	161	0	0	0	161
3711 TEXAS	3495	755	0	Q	4250
3712 TEXAS	2439	3071	0	16165	21675
3723 TEXAS	1700	0	0	0	1700
4000 COLORADO	244	0	0	0	244
4100 NEW MEXICO	•	1590	0	0	1590
TOTAL VOLUME	9946	5560	0	16165	31671

TABLE 94. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3712, TEXAS

DESTINATION : STATE OR PORT AREA :	MODE RAIL:	OF TRANS	: FA	RM :	TOTAL
		CTHOUSAND	S OF BUSHE	LS)	
3603 OKLAHOMA 3710 TEXAS 3711 TEXAS 3711 TEXAS 3712 TEXAS 3723 TEXAS 3745 TEXAS 3767 TEXAS 4100 NEW MEXICO 4401 ARIZONA 4402 ARIZONA 4403 ARIZONA 4703 CALIFORNIA 4704 CALIFORNIA 7303 NO. TEXAS GULF 7304 SO. TEXAS GULF	0 50 127 2439 3620 288 345 0 0 0 14 0 572 4421 722	306 0 3835 3071 1080 312 7355 12 1256 52 3 8 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	306 50 3962 5510 4700 600 7700 12 1256 52 17 8 581 4478 848
TOTAL VOLUME	12598	17482	0000 0000 0000 0000 0000 0000 0000 0000 0000	O	30080

TABLE 95. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3723, TEXAS

			***** **** **** **** **** **** ****		0000 0000 0000 0000 0000 0000 0000
	: MODE	OF TRANSP	ORTATIO	N :	
ORIGINATING	• OCAN DOOR MOON HONE GARN CHICA DESIGN ACCO.	0000 0000 0000 0000 0000 0000 0000 0000 0000		**** **** **** **** ***	
STATE OR PORT AREA	: :	*	:	FARM :	TOTAL
	: RAIL :	TRUCK : B	ARGE :	TRUCK :	
**** **** **** **** **** **** **** **** ****	44: **** **** **** **** **** **** ****	***************************************			***************************************
		CTHOUSANDS	OF BUS	HELS)	
2900 MISSOURI	1873	387	0	0	2260
	***************************************		**	0	
3501 KANSAS	191	277	0		468
3502 KANSAS	0	128	0	0	128
3504 KANSAS	320	162	0	0	482
3505 KANSAS	311	0	0	0	311
3603 OKLAHOMA	0	252	0	0	252
3711 TEXAS	181	2119	0	0	2300
3712 TEXAS	3620	1080	0	Ó	4700
3723 TEXAS	154	7896	Ö	10530	18580
3745 TEXAS	0	105	ŏ	0	105
3767 TEXAS	0	54	ő	0	54
OZOZ IEAMO					
TOTAL VOLUME	6650	12460	0	10530	29640

TABLE 96. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3723, TEXAS

sees cons mone than your cons cons cons over your cons post mone cons cons cons cons cons cons cons cons		MANU GROUP DOLL HOLD GROUP GRO	0000 0000 0000 0000 0000 0000 0000 0000 0000		900 4000 6400 6404 6004 6004 6004 900 4000 6400 6004 6004 6004 6004
	: MOD	E OF TRANSI	PORTATION	:	
DESTINATION	* *************************************	1000 0000 0714 1000 0607 1070 0816 FMF1 3854 88F9 0	*************************		
STATE OR FORT AREA	*	: :	: F	ARM :	TOTAL
	: RAIL	: TRUCK : 1	BARGE : T	RUCK :	
code pada base bodo como eleo delo apob code dese dese dese dele previous resultantes spor pro-	**** **** **** 000* 000* 000* 0000 000* 0000	***************************************	aine seen quips hand dust fails took took adde	2010 0117 1011 0000 0000 0011 0	100 ATTAC GOOD COOR STORE GOOD CARS
		(THOUSAND	S OF BUSH	ELS)	
3710 TEXAS	400	0	0	٥	400
3711 TEXAS	100		Ŏ	Õ	400
	V	700	0	V	, , ,
3712 TEXAS	1700		0	0	1700
3723 TEXAS	154	7896	0	0	8050
3745 TEXAS	40	460	0	0	500
3767 TEXAS	0	100	0	0	100
3789 TEXAS	Ö	150	Ö	Ö	150
4701 CALIFORNIA	212	0	0	0	212
7303 NO. TEXAS GULF	1200	279	0	0	1479
TOTAL VOLUME	3706	9285	000 0000 0000 0000 0000 0000 0000 0000 0000	0	12991

TABLE	97.	1977 SORGHUM	RECEIPTS FROM	VARIOUS	ORIGINS	BY
		FIRMS IN ARE	A 3745, TEXAS			

200 000 000 000 000 000 000 000 000 000	: M	ODE	OF TRANS	SPORTATIO	· AC	defit 0000 0000 edes 5ee0 edet 1000 10-4 70-4 0000 5100 5000 1004 4->>
ORIGINATING STATE OR PORT AREA	: RAI	:	TRUCK :	BARGE :	FARM : TRUCK :	TOTAL
600 400 100 400 600 600 100 100 100 100 100 100 100 1		(THOUSANI	S OF BU	SHELS)	9800 0011 1011 1111 0110 00ad
2900 MISSOURI	22	06	0	0	0	2206
3038 ARKANSAS	2	98	178	0	0	476
3404 NEBRASKA 3405 NEBRASKA	6 17	36 07	0	0	0	636 1716
3501 KANSAS	****	50	79	Ö	Ö	129
3502 KANSAS		0	697	Ŏ	Ö	697
3503 KANSAS	33	82	0	Ö	Ö	3382
3504 KANSAS		0	696	0	0	696
3505 KANSAS	23	86	0	0	0	2386
3601 OKLAHOMA		4	0	0	0	4
3711 TEXAS	24	60	340	0	37873	40673
3712 TEXAS		88	312	0	0	600
3723 TEXAS		40	460	0	0	500
3745 TEXAS	19	-	4770	0	0	6750
3789 TEXAS		0	300	0	0	300
4000 COLORADO	***************************************	5		· ··· ··· ·· ·· ·· ·· ·· ·· ··	0	
TOTAL VOLUME	154	42	7841	0	37873	61156

TABLE 98. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3745, TEXAS

MODE OF TRANSPORTATION :

DESTINATION	* NO.00	. OF INHMOF	OKIHITOM		
STATE OR PORT AREA	RAIL	: TRUCK : B		ARM : RUCK :	TOTAL
		CTHOUSANDS	OF BUSHE	ELS)	
3100 LOUISIANA	289	50	0	0	339
3710 TEXAS	14	16	0	0	30
3723 TEXAS	0	105	0	0	105
3745 TEXAS	1980	4770	• 0	0	6750
3767 TEXAS	0	60	0	0	60
3789 TEXAS	230	150	0	0	380
4401 ARIZONA	68	0	0	0	68
4403 ARIZONA	12	0	0	0	12
4701 CALIFORNIA	261	0	0	()	261
4703 CALIFORNIA	15	0	0	0	15
4704 CALIFORNIA	22	0	0	0	22
7303 NO. TEXAS GULF	11919	19585	0	0	31504
7304 SO. TEXAS GULF	440	6927	0	0	7367
7403 CALIFORNIA	187	0	0	0	187
9000 EXPORT	896	,	O	O	896
TOTAL VOLUME	16333	31663	Q	0	47996

TABLE 99. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3767, TEXAS

send dang their halfs will a send typic send dang dang dang dang dang dang dang da	***** **** **** **		trop pope prop page open topo part trop core core come pope page topo days care roce case even	100+ 000+ med 100+ mass toke of 100 name 0000 most wing opid ne	ted brank least during plant dated point to and mines good pages more admit plant waste to	ter make bade battle battle trans base ter bayes deale once round point, pages
ORIGINATING	•		OF TRANSP			
STATE OR PORT AREA	:		TRUCK : B	ARGE :	FARM : TRUCK :	
			CTHOUSANDS	OF BUS	SHELS)	
3710 TEXAS		0	50	0	0	50
3711 TEXAS		8	1002	0	0	1010
3712 TEXAS		345	7355	0	0	7700
3723 TEXAS		0	100	0	0	100
3745 TEXAS		0	60	()	0	60
3767 TEXAS		0	1100	0	6392	7492
3789 TEXAS		0	50	()	0	50
4100 NEW MEXICO		0	100	0	0	100
TOTAL VOLUME	***	353	9817	0	6392	16562

TABLE 100. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3767, TEXAS

then their nest cost cost cost cost cost cost cost co	* 1174 0400 1000 0000 0000 0000 0000 0000	0 10070 3400 4007 4007 1070 4004 1070 4000 1000 5000 1	1000 1000 0000 1000 0000 0000 0000 1000 0000 1000 1000 0000 1000 1000 0000 0000	1000 1000 0000 1000 1000 1	
•	MODE	OF TRANSPOR	RTATION	:	
DESTINATION :		- visto 1000 0000 0000 0000 0000 0000 0000 00	mbs 4000 0000 0000 0000 0000 0000		
STATE OR PORT AREA :	*	*	* FA	PM :	TOTAL.
Collina (o) () (o) () (o) () (o) (o) (o) (o)	DATI	TRUCK : BAI			ro m.
	POPER II.	TROCK + DM	NUE. + IN	UUN +	
	(THOUSANDS (OF BUSHE	LS)	
3710 TEXAS	0	100	0	0	100
3723 TEXAS	0	54	0	0	54
3767 TEXAS	٥	1100	0	0	1100
3789 TEXAS	ő	110	ő	ŏ	110
7304 SO. TEXAS GULF	Ň	44	^	Ň	44
73V4 SU+ LEVHS GATL	V	***	V	V	44
100 JOA 100 A S	0000 0001 1000 0000 1000 0000 0000 1000 0000			Press press press press press pr	
TOTAL VOLUME	0	1408	O	Q	1408

TABLE 101. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 3789, TEXAS

SOUR MOST DOOR MAN COME FOR THE THE COME OFF THE STATE OF THE STATE OFF THE STATE OF THE ST	0207 0000 0100 to	EG 0000 18760 0714, 5586 0000 2007 3144 0000 84 1774 0805 0006 1887 5487 6480 0100 0101	\$ \$800 0000 0000 0000 0000 4000 0000 000	000 0000 0000 0000 0000 0000 000	PF 6000 0000 0000 1000 0000 0000 0000 000	
ORIGINATING	: -	MODE	OF TRANSPO	ORTATIO	N :	
STATE OR PORT AREA	:	RAIL :	TRUCK : B	_	FARM : TRUCK :	TOTAL
		(THOUSANDS	OF BUS	HELS)	
3504 KANSAS		151	138	0	0	289
3505 KANSAS		159	0	0	0	159
3710 TEXAS		0	600	0	0	600
3711 TEXAS		247	3	0	0	250
3723 TEXAS		0	150	0	0	150
3745 TEXAS		230	150	0	0	380
3767 TEXAS		0	110	0	0	110
3789 TEXAS		0	5250	0	71458	76708
TOTAL VOLUME	**************************************	787	6401	0	71458	78646

TABLE 102. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 3789, TEXAS

DESTINATION	:	MODE	OF TRANSP	ORTATION		
STATE OR PORT AREA	:	RATI :	TRUCK : B		ARM :	TOTAL
		7 1 7 1 6 1 m W	11100011 4 2			
			CTHOUSANDS	OF BUSH	ELS)	
3710 TEXAS		0	252	0	0	252
3745 TEXAS		0	300	0	0	300
3767 TEXAS		0	50	0	0	50
3789 TEXAS		0	5250	0	0	5250
7303 NO. TEXAS GULF		1230	11745	0	0	12975
7304 SO. TEXAS GULF		4721	28871	0	0	33592
		east doing adds since empt dainy stopy often o	ned dots some hope plan never never spay times town	node book pada pada pada oven bida obid		
TOTAL VOLUME		5951	46468	0	0	52419
TOTAL TIME TOTAL DESIGN COOK DATA COOK DOOR COOK DOOK COOK COOK COOK COOK COOK COOK	** ****					

TABLE 103. 1977 SORG	AREA 4300	, UTAH					
			SPORTATIO		har desen servi emba situs pasa quad hin situa desa oron servi edon coos		
ORIGINATING : STATE OR PORT AREA :	RAIL :	TRUCK :	BARGE :	FARM : TRUCK :	TOTAL		
	1777 FORM TOTA TOTA GOOD BOOK 1610 5770 5000 6	(THOUSAN	OS OF BUS	SHELS)	oo dee pool sees stop past the		
3711 TEXAS	289	0	0	0	289		
TOTAL VOLUME	289	0	0	0	289		
TABLE 104. 1977 SORG				ORIGINS	BY		
* * * * * * * * * * * * * * * * * * *	MODE	OF TRANS	BPORTATIO	אכ :			
ORIGINATING : STATE OR PORT AREA :	RAIL:	TRUCK :	BARGE :		TOTAL		
		(THOUSAN	OS OF BUS	SHELS)	no sone come mean cone anne usam		
1700 FLORIDA 2200 ILLINOIS 2400 TENNESSEE 2800 IOWA 2900 MISSOURI	0 196 0 94	0 0 0	246 100 815 0 2966	0 0 0	246 296 815 94 2966		
3038 ARKANSAS	3965	0	2010	O	5975		
3100 LOUISIANA 3503 KANSAS	0	22	160 552	0	182 552		
TOTAL VOLUME	4255	22	6849	··· ··· ··· ··· ··· ··· ··· ··· ··· ··	11126		
TABLE 105. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 7302, LOUISIANA GULF							
	MODE		SPORTATIO				
DESTINATION : STATE OR PORT AREA :	RAIL:	TRUCK :	BARGE :	FARM : TRUCK :	TOTAL		
	***************************************	(THOUSAN	DS OF BU	SHELS)	000 0000 0000 0000 0011 PPÓP 0011		
3100 LOUISIANA 9000 EXPORT	0	22 0	0 7854	0	22 7854		
	***************************************	***************************************					

TOTAL VOLUME 0 22 7854 0 7876

TABLE 106. 1977 SORGHUM RECEIFTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 7303, NO. TEXAS GULF

SOLS NATU GROSS SOME BARNA SALES SOLDS STUDY GROSS CROSS SALES CARRA CARRA CARRA SALES SECUL SECUL SOLDS SOL	0000 (0000 0000 0000 0000 0000 0000 00		9000 0000 0000 0000 0000 0000 0000 000	 	0000 0000 0000 0000 0000 0000 0000 0000 0000 0100 1000 0000 0000
	: MOD	E OF TRAN	SPORTATIO	: אם	
ORIGINATING	•	**** **** **** **** **** **** **** **** ****	error table cares asses once expe cases expe s	*	
STATE OR FORT AREA	•	:	*	FARM :	TOTAL
	: RAIL	: TRUCK :	BARGE :	TRUCK :	
****		/ TUOLIC A 21	DS OF BUS		nees appr mos yang agang pang pang
		(THOUSHR	יטם זט פע	SHELS?	
2200 ILLINOIS	583	0	989	0	1572
2800 IOWA	1644	0	0	0	1644
2900 MISSOURI	6178	0	1024	0	7202
3038 ARKANSAS	900	0	0	0	900
3100 LOUISIANA	12	0	0	0	12
3403 NEBRASKA	18	16	0	0	34
3404 NEBRASKA	8299	0	0	0	8299
3405 NEBRASKA	28882	29	0	0	28911
3501 KANSAS	26	0	0	0	26
3502 KANSAS	6520	412	0	0	6932
3503 KANSAS	11621	1330	0	0	12951
3504 KANSAS	2220	0	0	0	2220
3505 KANSAS	5860		0	0	7190
3601 OKLAHOMA	791	0	0	0	791
3603 OKLAHOMA	508	0	0	0	508
3604 OKLAHOMA	598	0	0	0	598
3711 TEXAS	4116	83	0	0	4199
3712 TEXAS	4421	57	0	0	4478
3723 TEXAS	1200		0	0	1479
3745 TEXAS	11919		0	0	31504
3789 TEXAS	1230	11745	0	0	12975
TOTAL VOLUME	97546	34866	2013	٥	134425

TABLE 107. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 7303, NO. TEXAS GULF

DESTINATION	:	MODE OF T	RAN	SPORTATION	:		
STATE OR PORT AREA	:	RAIL : TRUC	< :	: FARM BARGE : TRUCK		TOTAL	
and the new case care and cree for the case case case case case case case cas		(THOU	SAN	DS OF BUSHELS)	year page page sees ease with right	
9000 EXPORT		0	0	132010	0	132010	
TOTAL VOLUME		0	0	132010	0	132010	

TABLE 108. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 7304, SO. TEXAS GULF

***** ***** ***** ***** **** **** **** ****		0000 2000 (000 0000 0000 0000 0000 0000	100 MALE 4000 4000 4000 1000 4000 4000 4000 400			0000 0000 0000 0001 1000 0000 1000 0000 0000 0000 1000 0000 1000
	:	MODE	OF TRANSP	ORTATIO	; NC	
ORIGINATING STATE OR PORT AREA	:	RAIL:	TRUCK : B	-	FARM : TRUCK :	TOTAL
		(CTHOUSANDS	OF BUS	HELS)	ness come code class note base class
2200 ILLINOIS 2800 IOWA 2900 MISSOURI 3404 NEBRASKA		349 203 4336 1679	0 0 13 0	0	0	349 203 4349 1679
3405 NEBRASKA 3502 KANSAS 3503 KANSAS 3504 KANSAS		14901 987 7468 1577	0 0 21 0	0 0	0 0	14901 987 7489 1577
3505 KANSAS 3601 OKLAHOMA 3710 TEXAS 3711 TEXAS		2670 289 5811 4465	21 0 5704 739	0 0	0 0	2691 289 11515 5204
3712 TEXAS 3745 TEXAS 3767 TEXAS 3789 TEXAS		722 440 0 4721	126 6927 44 28871	0 0 0	0 0	848 7367 44 33592
4100 NEW MEXICO 4401 ARIZONA		122 94	0	0	0	122
TOTAL VOLUME	*** **** ****	50834	42466	O	0	93300

TABLE 109. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 7304, SO. TEXAS GULF

			ADDR COME COME COME COME COME COME COME COME	*********	
DESTINATION	: MODI	E OF TRAN	SPORTATION	:	
STATE OR PORT AREA	RAIL	TRUCK :	BARGE : TR		TOTAL
	des fore five twee some upon upon upon upon upon upon e	(THOUSAN)	DS OF BUSHE	LS)	000 0000 0000 0000 0000 0000 0000
9000 EXPORT	0	0	91100	0	91100
TOTAL VOLUME	0	0	91100	0	91100

TABLE 110.	1977	SORGHUM	RECEIPTS	FROM V	ARIOUS	ORIGINS	BY
	FIRMS	IN AREA	7401 · CC	HMBTA	RTUFR		

that that from the their steel that but a surf and ones that from the area and area area					
wing same been date about more trade and takes and same about made and more about been date trade and trade and trade		5 5+00 0000 0000 0010 0000 0000 0000 4030 000		NO 0000 0000 0000 0000 0000 0000 0000 0	
	MODE	OF TRANS	PORTATIO	: ис	
ORIGINATING		***** **** **** **** **** **** **** ****			
STATE OR PORT AREA	: :	:	:	FARM :	TOTAL
	: RAIL :	TRUCK :	BARGE :	TRUCK :	
# # # # # # # # # # # # # # # # # # #			1000 0000 mass mass code case apea ap		
		(THOUSAND	S OF BUS	SHELS)	
		_	_	_	
3405 NEBRASKA	15	0	0	0	15
				00 Adda 4460 MBA 4000 0000 4000 0000 1	
TOTAL VOLUME	15	0	0	0	15
some team more total casal taum case door mine were nine mine made made noise nine over more nine some					

TABLE 111. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 7401, COLUMBIA RIVER

	:	MODE	OF TRANS	SPORTATIO	NC:		
DESTINATION	1 .						
STATE OR FORT AREA	*	:	:	*	FARM :	TOTAL	
	:	RAIL:	TRUCK :	BARGE :	TRUCK :		
	1000 0000 0000 0	man on to ender supply cover given buyen supply o	(THOUSANI	OS OF BUS	SHELS)	00 0000 0000 6000 0000 0000 0000	
DAAA EVEGET				4 500		4 1000	
9000 EXPORT		0	O	15	O	15	
						*** **** **** **** **** ****	
TOTAL VOLUME		0	0	15	0	15	
PROF CORS GATE THAN PAGE FORD TOUR THAT GATE GATE STAT CORD CARD GATE GATE GATE GATE							

TABLE 112. 1977 SORGHUM RECEIPTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 7402, PUGET SOUND

ORIGINATING STATE OR PORT AREA	• poor cree seer crep sees take cone •	E OF TRANS : : : : TRUCK :	*** **** **** **** **** **** **** **** ****	FARM :	TOTAL		
		(THOUSANI	S OF BUS	HELS)			
2900 MISSOURI	172	0	0	0	172		
3038 ARKANSAS	0	1865	0	0	1865		
3404 NEBRASKA	89	0	0	0	89		
3405 NEBRASKA	70	0	0	0	70		
TOTAL VOLUME	331	1865	0	0	2196		

TABLE 113.	1977 SORGHUM	SHIPMENTS TO	VARIOUS	DESTINATIONS	BY
	FIRMS IN ARE	A 7402 PUGET	SHIND		

come remai come come came came came anna sona dang sapa mpia pida dopa dome come anna sona come came came sona sona come come come come come come come come	000 0000 0000 0000 00 000 0000 0000 00	DI 4000 1000 0000 0000 1004 1004 1	2000 2000 0007 0107 0000 1000 0000 0000	: :::: :::: :::: :::: :::: :::: :::		1000 4044 5000 0000 0000 0000 0000 1084 4004 0040 0000 2000 0000 0000
DESTINATION	:	MODE	OF TRANS	PORTATIO		
STATE OR PORT AREA	:	RAIL:	TRUCK:	•	FARM : TRUCK :	TOTAL
		,	(THOUSAND	S OF BUS	SHELS)	
9000 EXPORT	0000 500	0	O	1641	0	1641
TOTAL VOLUME	500 0000 0000 0000 000	O	O	1641	0	1641

TABLE 114. 1977 SORGHUM RECEIFTS FROM VARIOUS ORIGINS BY FIRMS IN AREA 7403, CALIFORNIA

ORIGINATING STATE OR PORT AREA	* * * * * * * * * * * * * * * * * * * *	come shan neve even rems with craft	E OF TRANS	**************************************	FARM :	TOTAL
			(THOUSAN)	DS OF BU	SHELS)	
3404 NEBRASKA		65	0	0	0	65
3405 NEBRASKA		1046	0	0	0	1046
3502 KANSAS		68	0	0	0	68
3504 KANSAS		24	0	0	0	24
3505 KANSAS		149	0	0	0	149
3745 TEXAS		187	0	0	0	187
4703 CALIFORNIA		O		O	626	626
TOTAL VOLUME	, , , , , , , , , , , , , , , , , , ,	1539	0		626	2165

TABLE 115. 1977 SORGHUM SHIPMENTS TO VARIOUS DESTINATIONS BY FIRMS IN AREA 7403, CALIFORNIA

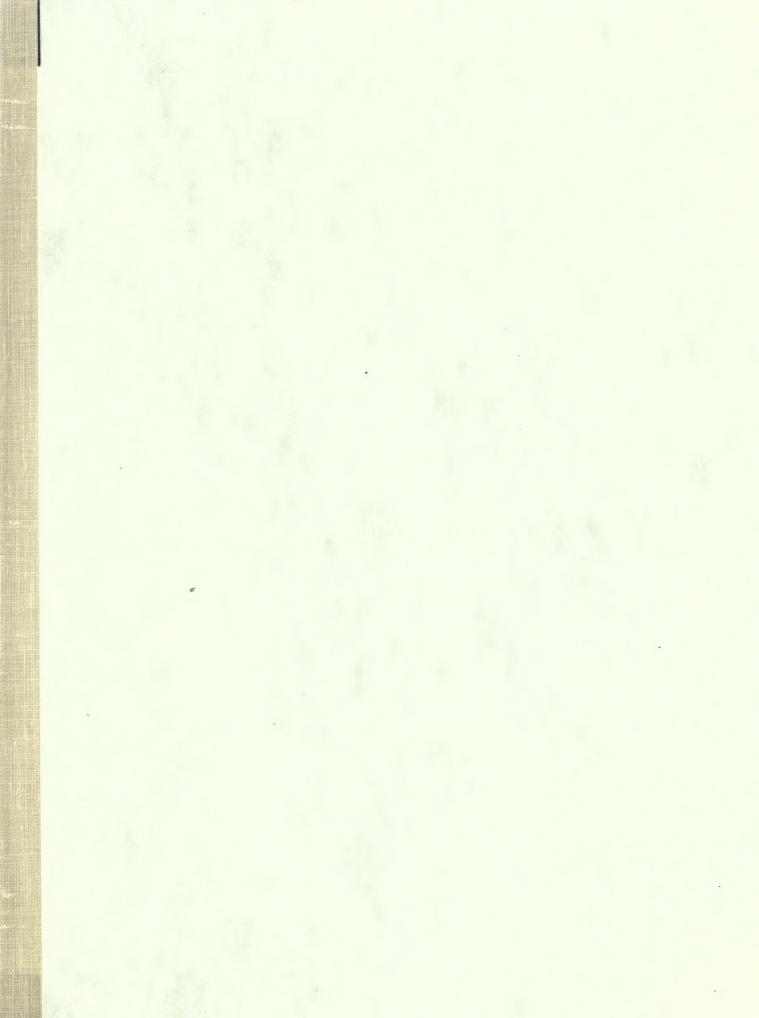
DESTINATION	i Mobi	E OF TRANS	FORTATION				
STATE OR PORT AREA	: RAIL	: TRUCK :	FARM FARGE : TRUC	: TOTAL			
		(THOUSAN)	S OF BUSHELS	;)			
9000 EXPORT	0	0	1919	0 1919			
TOTAL VOLUME	0	0	1919	0 1919			











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